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IN THE UNITED STATES DISTRICT COURT
 1
                    FOR THE EASTERN DISTRICT OF TEXAS
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                            MARSHALL DIVISION
                                     ( CAUSE NO. 2:21-CV-310-JRG
     TQ DELTA, LLC.,
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                                     )
               Plaintiff,
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 5
     VS.
     COMMSCOPE HOLDING COMPANY,
 6
                                     ) MARSHALL, TEXAS
     INC., et al.,
                                     ( MARCH 17, 2023
 7
               Defendants.
                                    ) 9:00 A.M.
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                                 VOLUME 1
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                           TRIAL ON THE MERITS
12
                  BEFORE THE HONORABLE RODNEY GILSTRAP
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                   UNITED STATES CHIEF DISTRICT JUDGE
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THE COURT: Thank you. Be seated, please.

Good morning, ladies and gentlemen. Thank you for being here.

My name is Rodney Gilstrap, and I am the chief United

States District Judge for the Eastern District of Texas. I

have lived in Marshall since 1981. I practiced law in and

around this community and this part of the state for 30 years,

and then I was nominated for this position by the president,

confirmed by the Senate, and I've been on the bench as a

federal district judge since 2011.

I will start with a confession because they say confession is good for the soul. I was not born in Texas, but I got here as quick as I could. I came to Texas at the ripe old age of 18 to enroll and attend college at Baylor University in Waco, finished my undergraduate degree there, and enrolled and graduated from Baylor Law School.

I am married. My wife owns and operates a retail floral business here in Marshall. My children are grown, but I have some perfect grandchildren.

Now, I tell you all these things about myself and my background because in a little bit I'm going to ask each of you-all to tell me and the rest of us the same kind of information about yourselves and your background, and I think you're entitled to know as much about me as I'm going to ask you to tell me about each of yourselves.

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Now, we're here this morning to engage in the selection of a jury in a civil case involving allegations of patent infringement. If you'll indulge me for just a minute, I want to briefly review with you how we came to have our American civil jury trial system. I think it's important for you to understand why we're here.

If you go back in ancient history and if you begin with the first five books of the Old Testament called the Pentateuch, you'll find that the ancient Hebrew nation impaneled juries to decide issues of property ownership and property value.

The ancient Greeks began using a jury system about 1500 BC. The Romans, as they did with many things, copied the jury system from the Greeks, and the ancient Romans employed a jury system. And it was the Romans that brought the jury system to what we now know to be Great Britain when they crossed the English channel and conquered that island in the 4th century AD.

And the jury system flourished in England, Great Britain, from the 4th century AD until the 12th century, 800 years.

But in the 12th century a rather tyrannical king came to the throne of England. His name was King John. And King John set about doing things that created tremendous discord and conflict between the king and all his nobles, and it led that country nearly to the brink of a civil war. And one of the

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things King John did that was highly objectionable to his nobles was he attempted to curtail the civil jury trial system in England.

Thankfully, there wasn't a civil war. Those disputes were all resolved in a lengthy written document signed by the king and all his nobles at a place called Runnymede. That document, which is an important historical instrument for any democracy, is known as the Magna Carta. And in the Magna Carta, the king guaranteed the right to a trial by jury for his subjects in England.

And so you can see that the jury trial system then later made its way across the Atlantic Ocean when our British colonial forefathers came to this continent, and the jury trial system flourished in British North America for over a hundred years until another rather tyrannical king came to the throne of Great Britain. This time his name was King George III.

And like King John, King George III became embroiled in many controversies with his British colonists here in North America. You've studied about that in American history. And those various disputes led our forefathers to determine that ultimately they had no choice but to separate from England and form our own independent nation.

And a part of that process involved a document being drafted by Thomas Jefferson called the Declaration of

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Independence. And in the Declaration of Independence, Thomas Jefferson set forth on behalf of all colonial subjects who were subject to those disputes, he set forth all the reasons why our forefathers thought and felt compelled to separate from England. And in the Declaration of Independence, one of the specific reasons called out for why we must separate and form our own independent nation was the king's efforts to curtail the right to trial by jury.

And as you all know from studying history in school, we did engage in a revolution, we did separate and form our own independent nation, and we did succeed in creating the United States of America. And shortly after our independence, though we had a brief period where we struggled with something called the Articles of Confederation, we quickly came around to drafting what is the supreme law of the land, the Constitution of the United States.

And after the Constitution was ratified, there was an immediate process to add 10 amendments. Those 10 amendments you've all known about. They're called the Bill of Rights. And if you look at those 10 amendments to the U.S. Constitution, the Seventh Amendment guarantees the right to trial by jury in a civil case for every American.

Those 10 amendments, the Bill of Rights, were all ratified and became part of our Constitution in 1791. So since 1791, for well over 200 years, every American has had a

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constitutionally-guaranteed right to have their civil disputes resolved through a trial by jury.

So I want you to have some understanding of importance and the significance of the trial by jury process, and that's why you're here this morning. And I want you to understand that, in the Court's view, each of you in a very real way are helping preserve, protect, and defend our Constitution, particularly the Seventh Amendment, by answering the call to jury duty and being here this morning and presenting yourselves for jury service in this case.

I always tell citizens who appear for jury duty as you have this morning that in my personal view jury service is the second highest form of public service that any American can render in my personal view. The highest form of public service are those young men and women that serve in our armed forces.

Now, the lawyers for the parties are going to address you the panel of potential jurors this morning. They're going to ask you various questions as a part of this process. I want you to understand, they are not seeking to inquire into your personal affairs unduly. Let me say that another way.

They're not trying to be nosy. They're trying to help secure relevant information to secure a jury of fair and impartial jurors to hear the evidence in this case. They're entitled to ask the questions they're going to ask.

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I want you to also understand these are some of the most skilled and experienced trial lawyers in the United States.

They know the rules. I do not expect them to ask any improper questions. If they should, I will not hesitate to stop them.

But you need to understand them asking the questions they will of you later this morning as a part of this process is an integral part of helping secure a fair and an impartial jury to hear the evidence in this case.

Now, I don't know if this will happen this morning, it rarely does, but I want to make you aware that if by chance you should be asked a question that in your own personal view is so personal and so private that you are not comfortable answering it in front of everyone else, you have the option to simply say, I'd like to talk about that with Judge Gilstrap. And if that's your answer, I'll provide an opportunity where you can answer that question outside of the presence of everyone else on the panel.

But I want you to understand, ladies and gentlemen, I've been doing this going on -- I'm in my 12th year. I think that's come up once or twice. It doesn't come up very often. But I want you to know it's an option if it should in your particular case.

Now, the trial in this case is going to start today after we've selected the jury, and I anticipate that it will extend through all of next week. This is the 17th, Saint Patrick's

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Happy Saint Patrick's day to everybody. Seven days from now, Friday of next week, is the 24th. I expect and hope we will be finished on the 24th.

There is a small chance that we could carry over onto Monday of the next week, which would be the 27th. I don't think that's likely; it's possible. This is not an exact science, the process of trying a case before a jury. But I have every reason to believe we'll be finished either a week from today or at the very latest the following Monday.

Now, I need to know if there are any of you on the panel who, if you were selected to serve on this jury, would have a very serious conflict as to why you might not be able to be here for that entire period of time.

And let me give you an example of what I'm talking about. If you have a surgical procedure that's scheduled for you or an immediate member of your family who is dependent upon you and that can't be changed, that's a reason to let me know that you have a conflict.

I want you to also understand, ladies and gentlemen, that the reason jury service counts as important public service is because it's inconvenient. It's never easy; it's never convenient to be on a jury. So inconvenience or I really would like to do something that I can put off 'til later, those are not reasons to be excused from jury duty. But if there is a serious reason that can't be easily changed and it

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impacts you personally, then that's something that I need to
know about.
     If there's anybody that feels like they fall in that
category, would you raise your hands and let me make a note of
that? Okay. No. 14 and No. 10. Anybody else in the jury
box? All right.
     Anybody in the gallery? I don't see any other hands.
     Okay. No. 10 and No. 14. Thank you.
     All right. At this time I'm going call for announcements
on the record in the case of TQ Delta, LLC., versus CommScope
Holding Company, Inc.; CommScope, Inc.; ARRIS International,
Ltd.; ARRIS Global, Ltd.; ARRIS U.S. Holdings, Inc.; ARRIS
Solutions, Inc.; ARRIS Technology, Inc.; and ARRIS
Enterprises, LLC.
     And, counsel, as you give your announcements on the
record for your respective parties, please introduce the
members of your trial team and any corporate representatives
that you have with you. We'll begin with the Plaintiff.
     What says the Plaintiff?
          MR. DAVIS: Good morning, Your Honor. Bo Davis on
behalf of the Plaintiff. I'd like to introduce from TO Delta
Ms. Abha Divine. Also at counsel table with me is Ms. Tara
Trask.
     Our trial team, Your Honor, is Mr. Pete McAndrews; Mr.
Christian Hurt, who's sitting back here.
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Mr. Raj, would you stand up, please? Thank you.
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          And Rudy Fink and, finally, Ms. Ashley Ratycz.
          We're ready to proceed, Your Honor.
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               THE COURT: Thank you, counsel.
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          What says the Defendants?
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               MR. DACUS: Good morning, Your Honor. Deron Dacus
     here on behalf of CommScope and ARRIS. And here with me as
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     part of the trial team are Ross Barton, Scott Stevens, Kirk
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     Bradley, and Karlee Wroblewski, Your Honor.
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          And our corporate representative, Your Honor, is
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     Mr. Steve Wauters. And due to circumstances beyond our
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     control, he cannot be here today, but he'll be here on Monday
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     for the rest of the trial, Your Honor.
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          And we're ready to proceed, Your Honor.
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               THE COURT:
                           Thank you, counsel.
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               MR. DACUS:
                           Thank you.
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               THE COURT: As I told you, ladies and gentlemen of
     the jury, this is a patent case arising out of the patent laws
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     of the United States. What the Plaintiff is claiming is that
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     its patents were infringed by the Defendants, and it's seeking
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     money damages because of that alleged infringement.
     Defendants deny that they infringe any of the claims in the
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     Defendants' patents, and they contend that the Plaintiff's
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     patents are invalid. Now, what I've just said is a very short
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     layman's version of what's at issue in this case.
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I know you've all seen the video prepared by the Federal Judicial Center this morning. Having seen that, you know more about patent cases than most people do in East Texas when they appear for jury duty. As I told you, the lawyers as a part of this process are going to question members of the panel to gather relevant information, exercise their rights called peremptory challenges, and help the Court secure a fair and an impartial jury to hear the evidence in this case.

I want you to understand this, ladies and gentlemen. There are no wrong answers to any of the questions you'll be asked by the lawyers as long as your responses to their questions are full, complete, and truthful. As long as your responses are full, complete, and truthful, there are no wrong answers.

As I mentioned, I don't think it's likely that any improper questions will be asked. If there are, I'll deal with it. But, again, these are very experienced trial lawyers, and I think that's very unlikely.

One thing I do want to call your attention to, though, before the lawyers begin with any questions, because I think they may ask you about your ability to apply this if you're selected to serve on this jury, is what we call the burden of proof. All cases must be proven by a certain amount of evidence, and that amount of evidence is what's called the burden of proof.

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In a patent case like this, the jury may be called upon to apply two different burdens of proof. The jury may apply, first, a burden of proof known as the preponderance of the evidence. I'll say that again--the preponderance of the evidence. And the jury may be called upon to apply a second burden of proof known as clear and convincing evidence. I'll say that again -- clear and convincing evidence.

Now, when you're responding to lawyers' questions about the burden of proof, I need to instruct you that when a party has the burden of proof on any claim or defense by a preponderance of the evidence, that first burden I mentioned to you, that means that the jury must be persuaded by the credible and believable evidence that that claim or defense is more probably true than not true. Let me say that again--more probably true than not true. This is sometimes talked about as being the greater weight and degree of credible testimony.

Let me give you an example I hope will be helpful. front of me are our Courtroom Deputy and our court reporter. In front of our court reporter is a statue of the Lady of Justice. She's blindfolded. In her right hand lowered at her right side is the sword of justice. In her left hand raised are the scales of justice. Those scales are equal and balanced in all respects, and that's where these parties should start off in this trial--equal and balanced.

But over the course of this trial, the Plaintiff is going

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to put all their evidence before the jury. Think of it as though the Plaintiff's going to put its evidence on one side of those scales and then the Defendants are going to present their evidence to the jury and think of it as though they will be putting their evidence on the other side of those scales.

And when all the evidence is in, it's on one side or the other of those scales, if a party has the burden of proof on any issue by a preponderance of the evidence and in looking at those scales they tip in favor of the party who has that burden by a preponderance of the evidence, even if they tip ever so slightly, then that party has met its burden of proof to prove that issue by a preponderance of the evidence.

Now, on the other hand, in applying the second burden of proof that I've noted for you as clear and convincing evidence, that means -- clear and convincing evidence means that you, the jury, must have an abiding conviction in the truth of the parties' factual contentions and find that they are highly probable.

Let me say that again -- an abiding conviction that the truth of the party's factual contentions are highly probable. That's a different burden of proof than the preponderance of the evidence. It is a higher burden of proof than the preponderance of the evidence.

If you imagine the same example and the scales of justice, they start off equal. Over the trial, the

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Plaintiff's evidence goes on one side, the Defendants' evidence goes on the other side, and when all the evidence is in, if a party has the burden of proof on any defense by clear and convincing evidence, then to meet that burden of proof, those scales must tip in that party's favor and they must definitely tip. It's not sufficient that they tip ever so slightly. They must definitely tip. But if they do, then that party has met the burden of proof of clear and convincing evidence.

Now, neither of these two burdens of proof, ladies and gentlemen, should be confused with a third and completely different burden of proof that you've probably heard about on television and in the movies called beyond a reasonable doubt. Beyond a reasonable doubt is the burden of proof applied in a criminal case. It has absolutely no application whatsoever in a civil case such as this.

Clear and convincing evidence is not as high a burden of proof as beyond a reasonable doubt, but it is a higher burden of proof than the preponderance of the evidence.

I give you these instructions in case the lawyers ask you about your ability to apply these two burdens of proof to the evidence if you're selected to serve as a juror in this case.

Now, before the lawyers begin their questioning, I'm going to ask each of you, as I indicated when I started this morning, to give all of us the same kind of information about

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yourselves that I gave you about myself when I came out here. All of you should have either in your hands or in the monitor or somewhere readily available nine standard questions.

I'm going to ask each of you to answer those nine standard questions for all of us, and let me tell you how we're going to do that. We have two of our court security officers in the courtroom. They each have a handheld microphone. They're going to bring that handheld microphone to each of you one at a time.

When you get that microphone, please stand up, please hold that microphone where it will do some good. Don't hold it down at your waist, hold it up near your mouth. large room. There are a lot of people here. We need the benefit of the amplification for that microphone so that we can hear you clearly. Hold that microphone near your mouth and then answer those nine questions for us. And then you'll either hand it back to the Court Security Officer or you'll pass it to the next person next to you if it's convenient.

And we're going to start with the first member of our panel, Mrs. Welch, and then we're going to go through every one one at a time on the panel.

Let me also say this, ladies and gentlemen. During the part of the process where the lawyers get to ask each of you individual questions, if you're asked an individual question by one of the lawyers, the Court Security Officer will bring

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you a handheld microphone. Wait until you get the microphone
and then stand up, then hold it near your mouth, and use that
to answer that question in the same way you're going to answer
these nine standard questions now.
    All right. So we'll begin with Mrs. Welch, Panel Member
No. 1.
     If you'll answer those nine questions for us, ma'am?
          THE PANEL MEMBER: My name is Karen Welch. City
where I live, Atlanta, Texas. I have one daughter. She died
in 2000. She had seven kids, and now seven of them kids have
kids. So I just have a lot of grandchildren running around my
feet.
    Place of employment, David Boone Ministry, Meals On
Wheels. I started this year in January. I have one year of
college.
    My husband is -- he passed in the 2000 so he don't work.
    And no jury service. No prior jury service.
         THE COURT: All right. Thank you, Mrs. Welch.
    Panel Member 2 is next.
         THE PANEL MEMBER: Hi. My name is Krista Ruest.
live in Marietta. I have six kids.
     I do not work. I'm a stay-at-home mom, home schooler for
16 years. I have a high school diploma and a cosmetology
license.
    My husband's name is John Ruest, and he works for the
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Church of Jesus Christ Latter Day Saints. He's a facility
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     manager, and he's worked there for about 16 years.
          And I have served a civil case jury duty.
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               THE COURT: How long ago was that and where was it?
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               THE PANEL MEMBER: That was about 18 years ago in
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     Fort Worth.
               THE COURT: And was it in a state court or a federal
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     court?
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               THE PANEL MEMBER: A state court.
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               THE COURT: All right. Thank you, ma'am.
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          Next is Panel Member 3.
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               THE PANEL MEMBER: My name is Trevor Mehrens. I
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     currently live in Longview. I have two children.
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          I work at Trinity Rail. I've been out there for about 13
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     years. I did go to trade school for welding and have a high
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     school diploma.
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          My wife's name is Kelsey Mehrens, and she is working on
     her third year working at Netty Williams.
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          And this is my first time doing jury duty.
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               THE COURT: And what kind of work does your wife do,
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     sir?
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               THE PANEL MEMBER: A schoolteacher.
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               THE COURT: Okay. Thank you.
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          Next is Panel Member 4, Mrs. Gage.
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               THE PANEL MEMBER: My name is Kathy Gage.
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actually don't live in a city, but our address is Hawkins,
Texas. I live in a little community, Shady Grove, and it's in
Upshur County. I have actually four children. We adopted our
two grandsons.
     And I worked at -- I'm retired, but I worked at Strategic
Fulfillment Group in Big Sandy, Texas, and I was a milling
operator, machine operator. And I finished high school and I
went to Federal Business Institute in Tyler, Texas.
     And my spouse's name is Darrell Gage, Sr. He is -- he
was a member of Local 100 in Dallas, Texas, Palmers and Pipe
Fitters Union, and he worked there about 15 years.
     And I had a civil jury that I was on many, many years
ago.
          THE COURT: Where was that jury service, ma'am?
          THE PANEL MEMBER:
                            It was in Hawkins, Texas.
          THE COURT: Okay.
                            Thank you.
     No. 5 is next, Ms. Lowery.
          THE PANEL MEMBER: My name is Brittanie Lowery.
                                                           I'm
from Atlanta, Texas. I have two children, a boy and a girl.
     I work at Ward Timber. I'm the office manager so fun
office stuff. I've worked there for nine years officially and
unofficially probably my whole life because it's a family
business. I went to Baylor University and graduated with a
business degree.
     My spouse is Brett Lowery. He works at Ward Timber also.
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He's our saw mill manager. He's been there for about six
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     years.
          And I have not done any jury service.
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               THE COURT: Thank you, ma'am.
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          Panel Member No. 6, Mr. Hodges.
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               THE PANEL MEMBER: Caleb Hodges; Bloomburg, Texas.
     Got five kids.
 7
          Hodges & Son Construction and been there 20-plus years.
 8
     High school education.
 9
          Megan Hodges is my wife. She's part-time, Hodges & Son
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     Construction, and then home schools the kids. She's been
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     there about 16 years.
12
          And no prior jury service.
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               THE COURT: Thank you, sir.
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          No. 7 is next, Mrs. Alexander?
15
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               THE PANEL MEMBER: My name is Labrisha Wilder
17
     Alexander. I have two children.
          I work at Wilder Brothers Construction. It's a family
18
     company. I've been there unofficially for about 30 years,
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     officially 12. I have a high school diploma.
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          My spouse's name is Jackie Alexander. He works at Wilder
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     Brothers Construction also. He's been there since 2008.
          And I served on one criminal case in Marion County.
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               THE COURT: In state court.
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               THE PANEL MEMBER: Yes.
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THE COURT: Thank you, ma'am.
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          All right. Panel Member No. 8 is next.
               THE PANEL MEMBER: My name is Ivan Becerril. I am
 3
     from Pittsburg, Texas, and I don't have any kids.
 4
          My place of employment is Healthcare Express in Mt.
 5
 6
     Pleasant. I am on the nursing staff and the radiology staff.
     I've worked there for about eight months. My education is an
 7
     Associate's degree in nursing from Navarro.
 8
          I don't have a spouse, and I've never served on a jury.
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               THE COURT: Thank you, sir.
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          Next is No. 9, Mrs. Pattison?
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               THE PANEL MEMBER: Hello. My name is Melissa
12
     Pattison. I live in Jefferson, Texas. I have two sons.
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          I work -- currently work at Brookshire's. I've been in
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     all departments. I'm currently in the meat department. I've
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     been there seven years. I have my GED.
17
          My husband is Michael Pattison. He works for General
     Cable, also known as Prysmian. He's a lab technician. He
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     tests cable from all over the world. He's been there I
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     believe 12 years.
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          And I've never served on a jury.
               THE COURT: Thank you, ma'am.
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          No. 10 is next. Excuse me, No. 11. No. It's No. 10.
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     Go ahead.
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               THE PANEL MEMBER: My name is Cathrine Martin.
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reside in Waskom, Texas. I have four children.
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          I'm currently employed as a registered nurse at Christus
 2
     Good Shepherd Medical Center here in Marshall. I work
 3
     intermediate care. I've been there for 15 months and was
 4
 5
     previously a hospice nurse.
 6
          My husband is a plant and airframe maintenance. He works
     with the Shreveport Regional Airport overnight maintenance on
 7
     aircraft. He's been there about three years.
 8
               THE COURT: What is his name, ma'am?
 9
               THE PANEL MEMBER: Clinton Martin.
10
11
               THE COURT: Thank you.
               THE PANEL MEMBER: And I have never served on a
12
     jury.
13
               THE COURT: Thank you, Mrs. Martin.
14
          No. 11 is next, Mrs. Patel.
15
               THE PANEL MEMBER: My name is Reena Patel. I live
16
17
     in Marshall, Texas. I have two boys.
          I work with my husband. We have -- we're in the hotel
18
     industry, so I've been working with him for 21 years.
19
     from South Carolina so I went to school -- high school there
2.0
2.1
     and did college two years and did business law.
          My husband's name is Dipen Patel, and he's also in the
2.2
     hotel industry. And he's been doing this for 38 years.
23
          And I have never served on jury duty.
2.4
               THE COURT: And you-all operate hotels here in
25
```

1	Marshall?
2	THE PANEL MEMBER: Yes, and Carthage.
3	THE COURT: Which ones?
4	THE PANEL MEMBER: We have the Motel 6, which was
5	Super 8, and in Carthage he built the Holiday Inn Express and
6	he sold that business. And then we have partnership in all
7	around the U.S.
8	THE COURT: Thank you.
9	All right. No. 12 is next, Mrs. Lowery.
10	THE PANEL MEMBER: Good morning. My name is Nancy
11	Lowery. I live here in Marshall. One son, deceased.
12	My place of employment is Walmart. I'm part of the asset
13	protection team. I've been there July will be 29 years.
14	Education, vocational education through the University of
15	Tyler.
16	My spouse's name is William Lowery. He's a retired cross
17	country truck driver.
18	And no prior service on a jury.
19	THE COURT: And what team did you say at Walmart
20	you're a part of?
21	THE PANEL MEMBER: Asset protection operations.
22	THE COURT: And what do they do?
23	THE PANEL MEMBER: I receive goods that come into
24	the store.
25	THE COURT: Thank you very much, Mrs. Lowery.

1	THE PANEL MEMBER: Uh-huh.
2	THE COURT: Next is No. 13, Mr. Sundby?
3	THE PANEL MEMBER: Hello. My name is Brian Sundby.
4	I live in Longview, Texas. I don't have any children.
5	Previous employment, worked at Texas Instruments and
6	Houston Lighting and Power. How long? Let's see. Well, I'm
7	retired. Education, associate of applied science and computer
8	networking.
9	I'm divorced. I've been divorced for a long time.
10	THE COURT: Any prior jury service?
11	THE PANEL MEMBER: Yes. I was on a civil case in
12	Harris County in Houston.
13	THE COURT: Was that in state court or federal
14	court?
15	THE PANEL MEMBER: It was when was that? I guess
16	it was state.
17	THE COURT: How long ago was that, sir?
18	THE PANEL MEMBER: Oh, 40 years.
19	THE COURT: Okay.
20	THE PANEL MEMBER: Back in the 1981.
21	THE COURT: Thank you very much.
22	THE PANEL MEMBER: Right.
23	THE COURT: No. 14 is next, Mr. Owens.
24	THE PANEL MEMBER: Rodney Owens. I got three boys.
25	I'm the owner of Soundwave, Incorporated, in Longview.

```
I've been there -- had that business I believe 19 years.
 1
                                                                GED
     and some college.
 2
          Spouse's name is Jody Ray. She's an RN at Longview
 3
     Regional. I believe she's been there almost 30 years.
 4
          And no prior jury.
 5
               THE COURT: Thank you, Mr. Owens.
 6
          All right. Next is Panel Member No. 15, Mr. Cheatham.
 7
               THE PANEL MEMBER: David Cheatham. I live in
 8
     Harleton. We have five kids.
 9
          I retired from the City of Longview Police Department,
10
     been retired two years. Bachelor, criminal justice.
11
          My wife's name is Nora Cheatham. She retired after 20
12
     years with the City of Longview Police Department.
13
          No jury service.
14
               THE COURT: What did you do in law enforcement and
15
16
     what does your wife do?
17
               THE PANEL MEMBER: She did -- she did patrol her --
     her whole 20 years. I did everything from patrol through
18
     crimes against persons, homicide, crimes against
19
     children--seven years of that, longest 20 years of my life.
2.0
2.1
               THE COURT: What was your -- what was your official
     title when you retired?
2.2
               THE PANEL MEMBER: I just retired as a patrol
23
     officer. I actually went back on the street my last two years
24
     and finished where I started in my first beat.
25
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THE COURT: Good.
                                  Thank you, Mr. Cheatham.
 1
               THE PANEL MEMBER: Because it was fun.
               THE COURT: Thank you.
 3
          Next is No. 16, Mr. Jennings.
 4
               THE PANEL MEMBER: Hi. I'm Dakota Jennings, and I'm
 5
 6
     from Longview, Texas. I don't have any children.
          My place of employment is I work at AAON Coils, which is
 7
     an AC plant, and I'm an inventory specialist. I have a high
 8
     school diploma.
 9
          I don't have a spouse and no prior jury.
10
11
               THE COURT: Thank you, sir.
          Next is No. 17, Mrs. Lancaster?
12
               THE PANEL MEMBER: My name is Julie Lancaster. I
13
     have one child.
14
          I am a self-employed hair dresser. I've been there for
15
16
     29 years. I'm very busy. I have an education in cosmetology.
17
          My spouse is Donnie Lancaster. He works in Longview at
     Rail Serve. He's an air brake technician.
18
          And I have served on two juries. I've been twice. One
19
     was 18 years, and one was 11 months ago.
2.0
               THE COURT: And where were those?
2.1
               THE PANEL MEMBER: In Linden, Texas.
2.2
               THE COURT: Both in Cass County in Linden, Texas?
23
               THE PANEL MEMBER: Yes, sir.
24
               THE COURT: Okay. Thank you, ma'am.
25
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1	No. 18, Mrs. Surman.
2	THE PANEL MEMBER: Hi, my name is Lisa Surman. I
3	live in Pittsburg. I have two children and one grandchild on
4	the way in July.
5	We own our own business, Surman Construction. We do
6	commercial concrete construction. I do the accounting. We've
7	had it for about 25 years. I have two years of college.
8	My husband's name is Timothy Surman. He is also owner
9	and operator. He does the estimating and the day-to-day
10	operations for almost 25 years as well.
11	And no prior jury service.
12	THE COURT: Thank you, ma'am.
13	If you'll hand that to the Court Security Officer, he'll
14	take it to Panel Member No. 19, Mr. Nenninger?
15	THE PANEL MEMBER: Good morning, Judge. My name is
16	Charles Nenninger. I've lived in Marshall, Texas, since 1993.
17	I have three children.
18	I work for the Harrison County Courthouse in information
19	technology. I've been there for 20 years. Educational
20	background is associate's bachelor's and some graduate work.
21	Spouse's name is Karen, and she is a registered nurse at
22	Christus Good Shepherd in Longview, been there for 22 years.
23	And my prior jury service was over 40 years ago in
24	Missouri, both criminal and a civil case.
25	THE COURT: And were any of those in federal court

```
or were they state court there?
 1
               THE PANEL MEMBER: They were state.
               THE COURT: Thank you, sir.
 3
          Next is No. 20, Mr. Northcutt.
 4
               THE PANEL MEMBER: Thank you, Your Honor. My name
 5
 6
     is Michael Franklin Northcutt, Jr. I live in Longview, Texas.
     I have two children.
 7
          I work for the Upshur County District Attorney's Office.
 8
     I'm an assistant district attorney. I've been there two years
 9
     two months. Graduated from Longview High School, the
10
     University of Texas at Austin, South Texas College of Law.
11
          My wife's name is Amy Northcutt. She works at LeTourneau
12
     University for eight years.
13
          I served on a criminal jury in state court in Harris
14
     County, Texas.
15
16
               THE COURT: Thank you, sir.
17
          No. 21 is next, Mr. Lejune.
               THE PANEL MEMBER: My name is Caleb Lejune. I'm not
18
     married. No kids or anything.
19
          I had a two-year degree, so I had two years in general
2.0
     studies at Panola College. I got an $8,000 scholarship.
2.1
     Hallelujah.
2.2
               THE COURT: What about your work experience?
23
               THE PANEL MEMBER: My work experience? I work at
24
     the Republic Cabinet Factory, been there eight months.
25
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basically a duster guy. I use a dust machine to dust the
 1
     pieces, been there about eight months.
 2
          And only -- other than that, the only jury -- I did have
 3
     jury service one time about -- I think about a year or so ago.
 4
     It was state. It was a murder case. That's the only prior.
 5
 6
               THE COURT: Where was that, sir?
               THE PANEL MEMBER: Right here at the courthouse,
 7
     sir, state court, yes, sir.
 8
               THE COURT: Harrison County courthouse?
 9
               THE PANEL MEMBER: Yes, sir. Yes, sir.
10
11
               THE COURT: Thank you.
          All right. No. 22 is next, Mr. Anderson.
12
               THE PANEL MEMBER: My name is Billy Anderson, and I
13
     live in -- I got four kids.
14
          And the place I'm employed is River City Iron & Metal.
15
16
     I've worked there about 18 years. Education, 12th.
17
          My spouse's name is Linda Faye Anderson, and she's not
     employed. And I have worked there -- I mean, she unemployed.
18
     And I worked -- I did community -- oh, lord.
19
               THE COURT: Any prior jury service, sir? Any prior
2.0
2.1
     jury service?
               THE PANEL MEMBER:
                                  No, sir.
2.2
               THE COURT: Okay. And where do you live, Mr.
23
     Anderson?
2.4
               THE PANEL MEMBER: Deberry, Texas.
25
```

1	THE COURT: Thank you very much, sir.	
2	Next is No. 23, Mr. Alford.	
3	THE PANEL MEMBER: I'm Mike Alford. I live over in	
4	Harleton. Mr. Cheatham may know my two younger brothers.	
5	They both just retired from law enforcement. According to my	
6	wife, I'm her only child.	
7	I retired four years ago from the Longview Gas Plant. It	
8	was a gas processing plant over in White Oak. I graduated	
9	Harleton High and Kilgore College.	
10	My wife is Kathy. She retired about three years ago	
11	after 35 years working for a dentist in the Longview area.	
12	I have served civil and criminal cases in Harrison	
13	County, but it's been a few years.	
14	THE COURT: Never in this court before?	
15	THE PANEL MEMBER: No, sir. I was called one time	
16	but excused.	
17	THE COURT: And tell me what you actually did for	
18	the gas plant?	
19	THE PANEL MEMBER: I was a measurement technician.	
20	The case I got let go on was a dealt with stripper wells,	
21	Railroad Commission, and they decided I might know too much,	
22	so they let me go from it.	
23	THE COURT: All right. Thank you, Mr. Alford.	
24	Next is No. 24, Mrs. Brown.	
25	THE PANEL MEMBER: Good morning. My name is Shelia	

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Brown. I live in Waskom. I have three adult children.
 1
          I'm retired. I previously worked for a state -- Texas
 2
     Health and Human Services. I was in management. We
 3
     determined benefits for needy families of Texas. I worked
 4
     there 35 years. I have high school and some college.
 5
          My spouse was Sammy Brown. He's now deceased.
 6
          No prior jury service.
 7
               THE COURT: Thank you, ma'am.
 8
          No. 25 is next, Miss Neeley.
 9
               THE PANEL MEMBER: My name is Rebecca Neeley. I
10
     live in Pittsburg. I don't have any children.
11
          I work at Guaranty Bank & Trust as a loan specialist.
12
     I've been there for two and a half years, and I have my high
13
     school diploma.
14
          I get married in eight short days. So as long as nothing
15
16
     goes past 4:00 on Friday, I'm fine. He works for the
17
     Wyland Company --
               THE COURT: Just bring him up here, and I'll take
18
     care of it.
19
               THE PANEL MEMBER: He works for the Wyland Company
2.0
     actually here in Marshall for oil field. He deals with
2.1
     chemicals. He's worked there for going on a year.
2.2
          And no prior jury service.
23
               THE COURT: Thank you, ma'am.
24
          Next is No. 26, Ms. Russell?
25
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THE PANEL MEMBER: Good morning. I'm Deborah
         I have three wonderful children, 10 great
grandchildren that I love dearly.
     I work for Davita Pinecrest Dialysis here in Marshall and
I've lived in Marshall all of my life and a Texan definitely
all of my life. And I've worked at Davita for four years now,
will be in April.
    No spouse. I've been happily divorced for 20 years at
least.
    And I have never been called as a juror. Thank you.
          THE COURT: Thank you, ma'am.
    No. 27 is next, Mrs. Moreno.
          THE PANEL MEMBER: My name is Lora Moreno. I have
one grown adult child.
     I work at Academy Sports & Outdoors in the footwear
department. If you need shoes, come see me. I've been there
about three and a half years. I have a Bachelor's in
management.
     My spouse's name is James Moreno. He has been happily
retired from Eastman for 42 years but decided to go back to
work at S & B for about a year.
    And no prior jury service.
          THE COURT: Do you work at the Academy location in
Longview or Shreveport?
          THE PANEL MEMBER: Longview.
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THE COURT: Thank you.
 1
          All right. No. 28 is next.
 2
               THE PANEL MEMBER: I'm Russell Romano. I live in
 3
     Jefferson, Texas. I have three children, two of which have
 4
 5
     moved out and only have a 13-year-old left at home.
          I work for Edward Jones as a financial advisor, been
 6
     there for about nine and a half years. I have a high school
 7
     diploma, a little bit of college, Series 7, Series 66
 8
     licenses.
 9
          No spouse, and I've never served on a jury.
10
               THE COURT: Thank you, sir.
11
          No. 29 is next, Mrs. Skidmore?
12
               THE PANEL MEMBER: I'm Lula Skidmore. I live in
13
     Atlanta, Texas. I have five grown children. I'm a housewife.
14
               THE COURT: Mrs. Skidmore, hold that a little
15
16
     closer. You're pretty far back from me.
17
               THE PANEL MEMBER: I'm sorry. I quit school in 11th
     grade to get married. Dumb idea.
18
          My spouse's name is William Skidmore. He's an RN at
19
     Transcend Hospice, and he's been there for three years.
2.0
2.1
          And I've never served on a jury.
               THE COURT: Thank you.
2.2
          No. 30 is next, Mr. Heller.
23
               THE PANEL MEMBER: Robert Heller, Sr. I have
24
     two -- well, I live in Gilmer, Texas. I have two children.
25
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I work at Neighbors Drilling Solutions. I've been there
for 11 years. I'm a technician. I have high school and some
college.
    My wife is Julie Heller, and she's a stay-at-home mom.
    And no prior jury service.
         THE COURT: All right, sir. Thank you very much.
    No. 31 is next, Miss Simpson.
          THE PANEL MEMBER: Hi. My name is Shelby Simpson.
I'm from Daingerfield, Texas. I do not have any children.
     I work at Eastman Chemical, and I am a senior production
specialist and that involves inventory and production. I've
been there going on four years. I have a high school diploma
and a college degree.
     I am not married. And I have served a criminal case in
Daingerfield, and it was for a state court.
         THE COURT: And what's your degree in, ma'am?
         THE PANEL MEMBER: I'm sorry. What was it?
         THE COURT: What is your degree in?
         THE PANEL MEMBER: Business administration and
management.
         THE COURT: All right. Thank you very much.
         THE PANEL MEMBER: Thank you.
         THE COURT: Next is No. 32, Mr. Wilson.
         THE PANEL MEMBER: Good morning. My name is Michael
        I live in Harleton, Texas. Proud father of two
Wilson.
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semiadult children.
 1
          Work at McCoy's Building Supply as an operations
 2
     supervisor, been there about 11 years.
 3
          My wife, Donna, works at East Texas Baptist University in
 4
 5
     the registrar's office as a secretary. She has been there
     about nine years.
 6
          And I have no prior jury service.
 7
               THE COURT:
                            Thank you.
 8
          No. 33 is next.
 9
               THE PANEL MEMBER: Emily Roeder from Marshall,
10
     Texas.
             I have no kids. I used to teach at Waskom Elementary
11
     for 12 years and quit to take care of my parents who were ill.
12
     Went to ETBU, got a Bachelor's degree.
13
          My husband is Josh Roeder, works at Prysmian in
14
     Scottsville. He's a senior lab tech. He's worked there for
15
16
     about five years.
17
          And never been a juror before.
               THE COURT: All right. Thank you, ma'am.
18
          Thank you very much, ladies and gentlemen.
19
          Now I need to say a couple of additional things to you
2.0
2.1
     before I turn the questioning over to the lawyers.
          The jurors who are selected to serve in this case will
2.2
     serve in the role as the judges of the facts, and the jury
23
     selected in this case will make the sole determination about
2.4
     what the facts are in this case. Now, my job as the judge is
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to rule on questions of law, evidence, and procedure, to maintain the decorum of the court, and to oversee an efficient flow of the evidence throughout the trial.

Also, I want to say a couple of things to you about our judicial system that hopefully will put things in a proper perspective for you. In every jury trial, besides the parties themselves, there are always three participants -- the jury, the judge, and the lawyers.

Now, with regard to the lawyers, it's important for you to understand that in our judicial system we have what's called an adversary system, which simply means that during the course of the trial each of the parties will seek to present their respective cases to the jury through their lawyers in the very best light possible.

Now, it's no surprise to you that lawyers are sometimes criticized in the media, but the Court's observed that some of that criticism comes from a basic misunderstanding of our adversary system in which the lawyers act as advocates for the competing parties.

And as an advocate, a lawyer is ethically and legally obligated to zealously assert his or her client's position under the rules of our adversary system. And by presenting the best case possible on behalf of their clients, the lawyers hopefully will enable the jury to better weigh the relevant evidence to determine the truth and to arrive at a just

verdict based on that evidence.

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This adversary system of justice has served our nation well for over 200 years, since our founding, and America's lawyers have always been and will be an integral part of the process. So as we go forward, even though it's possible I might from time to time roll my eyes or grumble at the lawyers, it's simply because I'm trying to make sure they stay within the bounds of our adversary system. But please keep in mind they are simply doing their jobs, and it's important for all of you to be aware of that as we go forward.

Also, ladies and gentlemen, I want you to know that with regard to those of you who may be selected to serve on this jury, I am going to do my very best throughout this trial to make sure that you have no idea about what I think about the evidence that you're going to hear over the course of the trial, because determining the facts from the evidence is the jury's job, it is not my job, and you should not take anything you see or hear or think you see or hear as coming from me as a factor to consider in determining the ultimate facts in this case.

All right. With this -- with that, rather, we're now prepared to hear from counsel from both the parties. We'll begin with the Plaintiff.

Mr. Davis, you may address the panel on behalf of the Plaintiff. Would you like a warning on your time?

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MR. DAVIS: Yes, Your Honor. May I please have five minutes and one minute? THE COURT: I'll warn you with five minutes and one minute remaining. You may proceed. MR. DAVIS: Thank you, Your Honor. Good morning, everyone. This is the part where you get In fact, we want you to talk. As Judge Gilstrap mentioned, this is our opportunity to speak to you, to talk to you and ask you some questions.

You don't know anything about the case yet. You haven't heard hardly anything. And my first question to you-all is, does anybody have any leanings one way or another, without having heard any facts in the case, are you already leaning towards one side or the other? Anybody? Do I see any hands?

Because I know sometimes when you got the envelope in the mail, you got the letter in the mail with the questionnaire, and you saw that, you may have thought, Oh, boy, I don't know if I want to -- I don't know if I want to go do that. understand. This is a disruption to your lives, it is a sacrifice, and I do want to say thank you for being here because it means a lot to us. And you're going to hear that, if you're selected for this jury, you'll hear thank you many, many times. So we do mean that. So thank you for being here.

I think we can all agree that we've probably all had different life experiences. We all agree with that?

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us has different backgrounds. We've experienced different things in our lives. And sometimes those experiences affect us in a way that, when we then encounter a later situation, we think, you know, you kind of start out already predisposed to one side or another of an issue.

And that's what this process is about. It's about just finding out your life experiences to see whether or not any of those life experiences may or may not start you, whether you intend it to or not because we all want to be fair, but whether you intend it to or not, start you out leaning -leaning one way or another.

And leaning doesn't disqualify you from -- from being on It's not -- so there's no fear of disqualification, the jury. there's no fear of -- of your answers. We just want honest answers, and we just want you to tell us what you think.

So Judge Gilstrap has permitted me a few minutes, a brief couple of minutes, to tell you a little bit more about this This is a patent case, as you've heard, and it's a case. patent case where TQ Delta is the patent owner, and they own a series -- a set of seven patents that are called standard essential patents. They relate to a technology called DSL technology.

Now, it's our contention in this case that the Defendant CommScope is infringing on those patents, and we're here to help have that dispute resolved. It's CommScope's contention

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that they don't infringe, they think the patents are invalid,
they think we breached a contract, and they say there
shouldn't be any damages as a result.
    So with that brief overview of the case, has -- does
anybody have any leanings one way another based just on those
facts? Okay. I don't see any hands.
    And I'll also say, you folks in the jury box here and you
folks there in the first row and the second row, you guys are
really in the hot zone. Okay? In terms of where the
questions are coming from. And you may think, well, if I
don't raise my hand, if I don't offer anything, I won't get
called on. That's probably not true. You folks in the back
there, I don't want you to feel like I'm ignoring you, but the
reality is it's less likely that you will -- you will make
this jury the way the process works.
    Now, these patents relate to DSL technology. Does
anybody have DSL in their home, DSL internet? You get your
internet from maybe a phone company that provides DSL
internet? Anyone?
     Okay. Thank you. No. 7, Mrs. Alexander?
         THE PANEL MEMBER: Yes, sir.
         MR. DAVIS: You have DSL?
         THE PANEL MEMBER: Yes.
         MR. DAVIS: How long have you had it?
         THE PANEL MEMBER: About four years.
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1
               MR. DAVIS: Four years. Are you happy with it?
               THE PANEL MEMBER: Yes.
 2
               MR. DAVIS: If you don't mind standing up there, do
 3
     you know anything about DSL technology?
 4
               THE PANEL MEMBER: When I turn my computer on, it
 5
 6
     comes up.
               MR. DAVIS: That's how I was before this case.
 7
            So you have DSL. Do you happen to know who made the
 8
     DSL modem that sits in your house? Have you ever looked at it
 9
     and seen a name on it?
10
               THE PANEL MEMBER:
11
                                  No.
               MR. DAVIS: Okay. Okay. Thank you, Mrs. Alexander.
12
     You can sit down.
13
          So this case deals with DSL technology, and I want to
14
     tell you just real briefly what that -- what that means and
15
     what specific technology in this case is about.
16
17
          You may not have ever thought about this, but DSL
     technology, the internet that comes to your house, it comes
18
     over telephone wires. Some of those telephone wires have been
19
     hanging up there for a hundred years. And you may not have
2.0
     ever thought about it, but how do you get a high speed data
2.1
     signal that provides reliable internet service over those
2.2
     wires if the wires have been there that long? They weren't
23
     designed for that purpose. They were designed simply to
24
25
     handle an old landline telephone call.
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Let me ask this. Does anybody in the jury box still have
a landline? Some of you do? Okay.
                                    Thank you. So some of us
still have landlines; some of us don't. I think a lot of
people may have jettisoned their -- their landline to just go
with their cell phone. But the landlines are what those
telephone lines were designed for. They weren't designed for
DSL technology.
     So these patents and the technology in this case is about
how do you get high speed digital data over these old
telephone wires that weren't designed for that.
    Can I ask anybody in the jury box, do you know anything
about DSL technology? Does anybody know anything about
it--how it might work? Nobody?
    What about you folks in the first two rows there? Okay.
Nobody knows anything about how DSL works?
    And anybody in the back know anything? Okay. Thank you.
     Does anybody have a technology, an internet service, in
their house called fiber? Okay. Thank you, sir.
    Mr. Hodges, would you please stand up? I just want to
ask you a real quick question.
     Do you know the difference between fiber and DSL?
         THE PANEL MEMBER:
                            No, sir.
         MR. DAVIS: Okay. You don't have any knowledge
about that or --
         THE PANEL MEMBER: Just very, very little.
```

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MR. DAVIS: Maybe that it might be more expensive?
 1
     Is that your experience at all?
 2
               THE PANEL MEMBER: It seems to be faster, I guess.
 3
               MR. DAVIS: I'm sorry. What did you say?
 4
                                  It seems to be fast.
               THE PANEL MEMBER:
 5
 6
               MR. DAVIS: Okay. It's fast? All right.
                                                           Thank
 7
     you. I appreciate that.
          Now, let me ask whether anybody knows any of the folks
 8
     over here on this side of the room for CommScope.
 9
          First, Mr. Dacus, would you please stand up?
10
               MR. DACUS: Yes, sir.
11
               MR. DAVIS: This is Mr. Deron Dacus. He's a lawyer
12
     from over in Tyler. Does anybody know Mr. Dacus? Okay. No
13
     one knows Mr. Dacus? All right.
14
          Now, this is may be a long shot. Mr. Ross Barnett [sic]
15
     or Mr. Scott Stevens, Mr. Michael Deane, does anybody know
16
17
     these lawyers? They work for a law firm called Alston & Bird.
     Okay.
18
          And does anybody know who CommScope is? Anybody ever
19
     heard the name of the company CommScope? Okay.
2.0
2.1
          CommScope is the Defendant in this case, and they have
     some other companies that are related to CommScope. One is
2.2
     called ARRIS. Anybody heard of a company called ARRIS
23
     or -- oh, excuse me.
2.4
          Yes, sir, No. 19. Mr. Nenninger?
25
```

1	THE PANEL MEMBER: Yes, sir.
2	MR. DAVIS: Would you please stand up? You've heard
3	of a company called ARRIS, sir?
4	THE PANEL MEMBER: We have several of their cable
5	modems installed in various county locations for our remote
6	locations.
7	MR. DAVIS: Okay. And what kind of cable I'm
8	sorry, you said cable modems?
9	THE PANEL MEMBER: Yes. Our internet is deployed
10	through the cable modem.
11	MR. DAVIS: Okay. And, sir, do you understand
12	anything about DSL technology?
13	THE PANEL MEMBER: Other than hooking it up and it
14	works.
15	MR. DAVIS: Okay. You don't know how it works or
16	THE PANEL MEMBER: Our equipment is on the back
17	back end of it. It's not on the front end. It's provided by
18	local cable service.
19	MR. DAVIS: What does your equipment do, sir?
20	THE PANEL MEMBER: Provide network access for those
21	people and the internet.
22	MR. DAVIS: Okay. And so as IT director, what are
23	some other things that you do as part of your
24	responsibilities?
25	THE PANEL MEMBER: Everything.

1	MR. DAVIS: Everything?
2	THE PANEL MEMBER: Phones, computers, audio/visual
3	equipment.
4	MR. DAVIS: Okay. And do you understand how to read
5	computer code at all, sir?
6	THE PANEL MEMBER: I was trained in programming
7	while I was in college, but I have a real good network
8	technician who does all the routers and the switches and the
9	breaking down of the internet access to local users.
10	MR. DAVIS: How long has it been since you've
11	reviewed computer source code?
12	THE PANEL MEMBER: Other than updating web pages, I
13	don't touch that stuff anymore.
14	MR. DAVIS: Okay.
15	THE PANEL MEMBER: Getting a little long in the
16	tooth for that.
17	MR. DAVIS: Me, neither, sir. Thank you very much.
18	You may sit down. I appreciate your answers there.
19	All right. So I didn't see any hands when I was asking
20	about the folks on this side of the room. I believe, Mr.
21	Northcutt, have you and I ever met, sir?
22	THE PANEL MEMBER: Yes.
23	MR. DAVIS: Okay. And you live over in Longview?
24	THE PANEL MEMBER: Yes, that's correct.
25	MR. DAVIS: All right. And you and I have known

```
each other in Longview before. Correct?
 1
               THE PANEL MEMBER: That is correct.
 2
               MR. DAVIS: All right. I just wanted to -- wanted
 3
     to get that out there. And as the assistant district attorney
 4
 5
     over in Longview. Is that right?
 6
               THE PANEL MEMBER: No, I'm in Upshur County now in
     Gilmer.
 7
               MR. DAVIS: In Gilmer? All right. And you heard
 8
     Judge Gilstrap describe the burdens of proof in this case?
 9
               THE PANEL MEMBER: Yes.
10
               MR. DAVIS: And are you familiar with that
11
     terminology?
12
               THE PANEL MEMBER: Yes.
13
               MR. DAVIS: So what I'd like to ask you is that in
14
     this case there are going to be two different burdens of
15
16
     proof. The Plaintiff has a certain burden of proof, and for
17
     other issues that the Defendant has the burden on, they have a
     different burden. Anything about that strike you as -- as
18
     unfair or that something you couldn't apply in this case?
19
               THE PANEL MEMBER: No. I could apply it.
2.0
2.1
               MR. DAVIS: Okay.
               THE PANEL MEMBER: It's different than the way we do
2.2
     it in state court. But, yes, I could apply it.
23
               MR. DAVIS: All right. Thank you, Mr. Northcutt.
                                                                   Ι
24
     appreciate it.
25
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Does anybody else -- does anybody else have any concern or does it start you out leaning one way or another with the fact that there is a different burden of proof for the Plaintiff than there is for the Defendant and that the Defendants' burden is higher on certain issues? Does that -does that just strike anyone as unfair or something that you couldn't apply if the Court asked you to? Okay. I see no hands. Thank you very much. Now, I wanted to ask about, one of the questions in your jury questionnaire was what's your level of trust in the government, and I saw all kinds of answers. I saw some people say, I have no trust at all; and others said, Somewhat. So would -- Mr. Anderson -- I'm sorry. Not Mr. Anderson. Mr. Jennings, could you please tell me about your level of trust in the government? Do you trust the government at all, sir? THE PANEL MEMBER: No, sir. MR. DAVIS: Okay. And I'm asking you this because patents are issued by a government agency, the United States Patent and Trademark Office. And I'm wondering whether or not you have any -- whether maybe your lack of trust in the

MR. DAVIS: You don't think that starts you out or

government would start you out leaning one way or another in

this case because the patents come from a government agency.

THE PANEL MEMBER: No, sir.

```
starts CommScope out a little bit ahead of us?
 1
               THE PANEL MEMBER: No, sir.
 2
               MR. DAVIS: Okay. Well, I appreciate your answers
 3
     there, sir. Thank you.
 4
          What about anyone else as far as if you feel like
 5
 6
     the -- you don't have a strong belief in the federal
     government. I understand there's parts of it we may not like.
 7
     But as far as the United States Patent and Trademark Office,
 8
     does anybody start out thinking, Oh, well, if that came
 9
     from -- those patents came from that office and that office is
10
     part of the government, I'm already leaning towards CommScope?
11
          Does anybody have that -- have that concern? I don't see
12
     any hands at all. Okay.
13
          If you don't mind, I'm going to call on Mr. Owens. Mr.
14
     Owens, please.
15
16
          Does that start you out leaning one way or another in
17
     terms of --
               THE PANEL MEMBER: No. There's certain -- like you
18
     were saying, there's certain parts that we don't trust.
19
               MR. DAVIS: Which part do you not trust? The IRS?
2.0
2.1
               THE PANEL MEMBER: Yeah, a little bit. Some of the
     Senate and that type of thing.
2.2
               MR. DAVIS: I understand.
23
               THE PANEL MEMBER: Other than that, no, no, not at
24
25
     all.
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MR. DAVIS: Okay. And so in your view, Plaintiff
 1
     and Defendant in this case, equal footing?
 2
               THE PANEL MEMBER:
                                  Yes.
 3
               MR. DAVIS: Okay. Thank you. Thank you for your
 4
     answers.
 5
          So that was the -- I've talked to you a little bit about
 6
     the patent system. Does anybody just fundamentally believe
 7
     patents shouldn't exist or I don't really like patents or I've
 8
     never thought about it but now that I'm here and I'm thinking
 9
     about it, I just don't know that patents are something that
10
     I -- that I necessarily agree with?
11
          Does anybody have those thoughts or those leanings? All
12
     right.
13
          Can I -- Mrs. Moreno, No. 27. Could you please hand her
14
     the microphone?
15
16
          I believe you indicated in your questionnaire that you
17
     had strong feelings, and I just wanted to ask, I didn't -- you
     didn't elaborate. Do you have strong feelings about patents
18
     or the patents system?
19
               THE PANEL MEMBER: To a certain extent.
2.0
               MR. DAVIS: To a certain extent.
2.1
               THE PANEL MEMBER: Like the patents for medicine,
2.2
     it's regulation what can you put in there.
23
               MR. DAVIS: I understand. And does your feelings
24
     about medical patents or -- or patents related to medicine,
25
```

```
does that start you out leaning one way or another in this
 1
     case at all?
               THE PANEL MEMBER:
                                  Nope.
 3
               MR. DAVIS: Okay. Because you understand this case
 4
     is not about medicine.
 5
 6
               THE PANEL MEMBER: Yes, sir.
               MR. DAVIS: Well, I appreciate you. Thank you for
 7
     your answer on that.
 8
          Mr. Sundby, I believe you had an answer about whether or
 9
     not patents should be protected -- or patents should
10
11
     -- feelings about the patent system. What are your feelings
     about that, sir?
12
               THE PANEL MEMBER: I think they should be protected.
13
               MR. DAVIS: You do?
14
               THE PANEL MEMBER: Yes.
15
               MR. DAVIS: Okay. And do your feelings about the
16
17
     patent system start you out leaning one way or another in this
     case?
18
               THE PANEL MEMBER: No.
19
               MR. DAVIS: I just want to be sure -- you looked
2.0
2.1
     like there may have been something there, but it wasn't
     something you felt was strong enough to say. Even if it's
2.2
     just a little bit of a leaning, I'd really appreciate knowing
23
     about that.
2.4
               THE PANEL MEMBER: I just feel they should be
25
```

```
1
     protected.
               MR. DAVIS: Okay. And does that start you out
 2
     leaning in favor of CommScope at all in this case?
 3
               THE PANEL MEMBER: No.
 4
               MR. DAVIS: All right. Thank you very much.
 5
 6
          Does anyone have any technical training in the courtroom
     today? I know some of you probably do, technical training.
 7
     Okay.
 8
          I see, Mr. Nenninger, you have some technical training.
 9
     And can you please tell me a little bit about that?
10
               THE PANEL MEMBER: Well, it's in server setup,
11
     switch setup, web page updating, things like that, phone
12
     systems.
13
               MR. DAVIS: Okay. And is that -- can you -- is that
14
     just getting them to work -- plugging them in and getting them
15
     to work or is it more complicated?
16
17
               THE PANEL MEMBER: It is much more complicated than
     that, yes. It's not like landlines.
18
               MR. DAVIS: So it's not just plugging it in. Right?
19
               THE PANEL MEMBER: No, no. So, yes, we have a very
2.0
2.1
     large system in the county with multiple site locations and
     connectivity and all that good business --
2.2
               MR. DAVIS: Okay.
23
               THE PANEL MEMBER: -- because everything's going to
24
     cloud-based as opposed to local servers.
25
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MR. DAVIS: Yeah. Thank you, sir. I appreciate it.
 1
          Mr. Sundby, if I could come back to you. I actually
 2
     meant to ask you this question. I see that you worked for a
 3
     company called Texas Instruments. Is that true?
 4
               THE PANEL MEMBER: Yes. I worked for Texas
 5
 6
     Instruments in Dallas.
               MR. DAVIS: Okay. And what did you do for them,
 7
     sir?
 8
               THE PANEL MEMBER: Well, as a manufacturing
 9
     specialist. We built computer chips for DLP, digital light
10
11
     processing.
               MR. DAVIS: And those are the chips that go in the
12
     televisions?
13
               THE PANEL MEMBER: Yeah, the televisions and
14
     projectors and -- like that.
15
               MR. DAVIS: And did you have to have some technical
16
17
     training to do that job?
               THE PANEL MEMBER: No, just stuff there. I went to
18
     Kilgore College and graduated there and applied for Texas
19
     Instruments and got hired.
2.0
2.1
               MR. DAVIS: Okay. Thank you, sir. I appreciate
     that?
2.2
               THE PANEL MEMBER: All right. Thank you.
23
               MR. DAVIS: Mrs. Ruest, did I say your name right?
24
               THE PANEL MEMBER: It's Ruest.
25
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MR. DAVIS: I apologize. Could I ask you a
 1
     question, please, ma'am?
 2
               THE PANEL MEMBER: Sure.
 3
               THE COURT: Let's take her a microphone, please.
 4
               MR. DAVIS: You mentioned you were on a jury before?
 5
 6
               THE PANEL MEMBER: Yes.
               MR. DAVIS: And what jury was that or where was
 7
     that?
 8
               THE PANEL MEMBER: In Fort Worth.
 9
               MR. DAVIS: What kind of case was it?
10
               THE PANEL MEMBER: It was a civil case, and there
11
     was a patient that he had been a patient at a hospital and he
12
     was suing the hospital for neglect.
13
               MR. DAVIS: And did you reach a verdict in that
14
     case?
15
16
               THE PANEL MEMBER: We did.
17
               MR. DAVIS: What was that verdict?
               THE PANEL MEMBER: The verdict was that the patient
18
     was right, that he was neglected. That wasn't -- I wasn't one
19
     of the ones. I believe it was 10 -- I think had to have 10,
2.0
2.1
     and there was 12, and me and another lady disagreed.
               MR. DAVIS: All right. Thank you. I appreciate
2.2
     that.
23
          And, Mrs. Alexander, could I hear from you again? I
24
     think you were also on a jury?
25
```

1	THE PANEL MEMBER: Yes.
2	MR. DAVIS: Okay. And what type of case was that?
3	THE PANEL MEMBER: It was a juvenile criminal case,
4	molestation case.
5	MR. DAVIS: And what was the outcome?
6	THE PANEL MEMBER: He was guilty.
7	MR. DAVIS: And were you the foreperson?
8	THE PANEL MEMBER: No.
9	MR. DAVIS: Okay. Thank you. I appreciate that.
10	Has anyone else been on a jury? I may have missed one or
11	two. Anybody in the first couple of rows?
12	I know, Mr. Northcutt, you have.
13	Okay. Thank you.
14	Mrs. Lancaster, would you please take the microphone?
15	What was the outcome of the case?
16	THE PANEL MEMBER: They were guilty, and it was
17	violence.
18	MR. DAVIS: Criminal case?
19	THE PANEL MEMBER: Yes.
20	MR. DAVIS: Okay. And were you the
21	THE PANEL MEMBER: We all agreed, yeah.
22	MR. DAVIS: Okay. Thank you.
23	Now, I know that many of you asked on your questionnaires
24	or you answered on your questionnaires there was a
25	question about lawsuits and are there too many of them, and I

```
know that many people said, of course, there's too many
 1
     lawsuits.
 2
          But what I'd like to know is whether any of you feel like
 3
     because that you think there's too many lawsuits, that you
 4
     start out leaning one way or another in this case.
 5
 6
          And so if I could hear from you, please, Mr. Mehrens?
 7
     Did I say that correct? Thank you.
          Mr. Mehrens, do you believe there are too many lawsuits?
 8
               THE PANEL MEMBER: For sure.
 9
               MR. DAVIS: Okay. And how does that make you lean,
10
11
     if at all, in this case as you're sitting here today?
               THE PANEL MEMBER: Honestly, I couldn't tell you.
12
     Like, I'm pretty neutral right now.
13
               MR. DAVIS: Right. Okay.
14
               THE PANEL MEMBER: But, yeah. No more comments on
15
16
     that.
17
               MR. DAVIS: Okay. Right now you're not leaning one
     way or another?
18
               THE PANEL MEMBER:
                                  No.
19
               MR. DAVIS: Okay. And does the fact that my client,
2.0
2.1
     TQ Delta, had to file a lawsuit, does that start you out
     leaning one way or another?
2.2
               THE PANEL MEMBER: Not -- not necessarily.
23
     without asking more questions about it. Right?
24
               MR. DAVIS: You'd like to know the facts.
25
```

```
THE PANEL MEMBER: Yeah.
 1
               MR. DAVIS: Thank you, sir. I appreciate your
 2
     answers on that.
 3
          And, Mrs. Lowery, could I hear from you on that question,
 4
     please?
 5
 6
               THE COURT: We have two Mrs. Loweries.
               MR. DAVIS: I'm sorry. I meant to go to Juror No.
 7
     12, Mrs. Lowery, in the back row. Thank you.
 8
               THE PANEL MEMBER: Yes, there's too many frivolous
 9
     lawsuits.
10
               MR. DAVIS: And does that -- I'm sorry?
11
               THE PANEL MEMBER: Do I have an opinion on this one?
12
     No. I don't have enough information to make that decision.
13
               MR. DAVIS: You don't start out leaning one way or
14
     another at all.
15
16
               THE PANEL MEMBER: No.
17
               MR. DAVIS: I appreciate your answer because you can
     understand my client, as the client -- as the party who filed
18
     this lawsuit, we'd be worried about that. Right?
19
               THE PANEL MEMBER: Yes. I would be if I was in that
2.0
     case or in that situation. But I don't know either party one
2.1
     way or the other, so -- sorry.
2.2
               MR. DAVIS: That's fine. I appreciate your honesty.
23
     Thank you, ma'am.
24
          Now could I hear from Mrs. Lowery in the front row?
25
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```
you have any thoughts on that question? Do you agree?
 1
               THE PANEL MEMBER: I feel like everyone has a right
 2
     to defend whatever they have. So I'm equal. I feel like
 3
     everyone should get a chance to...
 4
                                  No leanings starting out?
 5
               MR. DAVIS: Yeah.
 6
               THE PANEL MEMBER:
                                  No leanings. No leanings.
               MR. DAVIS: Okay. All right. Thank you very much.
 7
          Mrs. Pattison, can I call on you, please?
 8
               THE PANEL MEMBER: No, I have no -- I'm not leaning
 9
     in any way --
10
11
               MR. DAVIS: Okay.
               THE PANEL MEMBER:
                                  -- either way.
12
               MR. DAVIS: Okay. I appreciate that. Thank you
13
     very much.
14
          Now, I'd like to ask whether or not -- and you
15
16
     may -- this may be an issue you've never thought about before,
17
     but TQ Delta owns patents, and you're going to hear about
     those patents if you're selected to be on this jury and you're
18
     going to hear about the business of what they do and how
19
     they -- how they operate and what their purpose is. But one
2.0
2.1
     thing that TQ Delta does not do is make a product. And by
     that, I mean they don't manufacture a DSL modem. Okay?
2.2
          Does the fact that TQ Delta does not manufacture DSL
23
     modems like the Defendant CommScope, does that strike anybody
24
25
     as maybe leaning one way or another at the beginning of this
```

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case before you've heard any of the evidence? No?
 1
               THE COURT: You have five minutes remaining,
 2
     counsel.
 3
               MR. DAVIS: Thank you, Your Honor.
 4
          Mrs. Ruest, could I please ask you? It looked like you
 5
 6
     made eye contact with me and I just wanted to see if you had
 7
     thoughts on that.
               THE PANEL MEMBER: I would just need to hear more
 8
     about it -- about that, yeah.
 9
               MR. DAVIS: Okay.
10
               THE PANEL MEMBER: You know, owning patents and not
11
     manufacturing them, you know, what -- what is the -- what
12
     is -- what is the business in that? You know, what is your
13
     gain in -- in that if you're not going manufacture --
14
               MR. DAVIS: Uh-huh.
15
16
               THE PANEL MEMBER: -- if you're just going to hold
17
     on to something and not let it progress?
               MR. DAVIS: Okay.
18
               THE PANEL MEMBER: Is that what we're --
19
               MR. DAVIS: That's exactly --
2.0
2.1
               THE PANEL MEMBER: -- talking about?
               MR. DAVIS: Well, that -- I appreciate your answer,
2.2
     but that is -- you answered my question, so thank you. But at
23
     this stage, do you start out leaning at all?
24
               THE PANEL MEMBER: No, no. I wouldn't say so.
25
```

```
MR. DAVIS: You wouldn't say so?
 1
               THE PANEL MEMBER: Yeah.
 2
               MR. DAVIS: Okay. Great.
                                          Thank you very much.
 3
     appreciate that.
 4
          Does anyone else agree with Mrs. Ruest that, you know,
 5
 6
     it's at least a question in your mind as to, wait a minute, if
     you got a patent, you should be making a product?
 7
          No. 3, Mr. Mehrens, could I hear from you, please, sir?
 8
               THE PANEL MEMBER: I was agreeing with you. It's
 9
     mildly concerning. Right? If you own a patent, what are we
10
11
     doing with it if we're not making it. Right? I just --
               MR. DAVIS: So --
12
               THE PANEL MEMBER:
                                  Yeah.
13
               MR. DAVIS: Go ahead. I didn't mean to interrupt
14
15
     you.
16
               THE PANEL MEMBER: So -- so back story or a little
17
     bit -- more information about myself. I have a brother-in-law
     that has a patent.
18
               MR. DAVIS: Okay?
19
               THE PANEL MEMBER: Granted, I have learned more
2.0
2.1
     about patents today than I have ever learned talking to him,
     but, you know, I know what he -- he's doing with it and in
2.2
     trying to use it. So it's concerning potentially that you-all
23
     have patents, but you don't manufacture them. So it's like
24
     you're controlling it almost. Right? I don't know.
25
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definitely -- definitely more information to come.
         MR. DAVIS: Okay. So let me ask you this: Do you
start out leaning one way or another, knowing the fact that TQ
Delta doesn't manufacture a product -- and that's not the
whole story. You'll hear everything about TQ Delta. But does
that start you out leaning one way or another?
         THE PANEL MEMBER:
                            Unfortunately, yes. Yeah.
         MR. DAVIS: Okay.
                            Thank you.
         THE PANEL MEMBER: Just because of my -- my personal
reasons of knowing what my brother-in-law has gone through
with all of his.
         MR. DAVIS: Okay. Can I ask you a question then?
If -- if the law, as Judge Gilstrap explains it to you or
instructs you, is -- is that making or whether or not TQ Delta
manufactures a problem [sic] doesn't diminish or affect the
rights of TQ Delta, would that -- would you be able to follow
those instructions?
         THE PANEL MEMBER: Yeah. No, I can have a personal
         But you give me facts, I can understand that.
can -- I can leave my personal feelings out of that. So --
         MR. DAVIS: Okay. All right. Thank you, sir. I
appreciate that.
    Now, the other thing I'd like to talk about in my few
remaining minutes is one of the issues in this case is
damages.
         These are two businesses that are having a dispute,
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and the way to resolve that and part of your job as jurors is you're going to have to decide, if you decide there should be damages, what that amount should be. And the amount that's going to be at issue in this case is a very high number. It's \$90 million.

And I'd like to know from the outset if that number causes you, just on its own without knowing any facts, causes you to lean one way or another.

THE COURT: You have one minute remaining.

MR. DAVIS: One minute? Thank you, sir.

Could I just see a show of hands of anybody here in the jury box, does that bother anyone and make you start leaning one way or another just because of the fact that there is a lot of money at issue in this case? I don't see any hands there.

What about you folks on the first two rows? Does that bother anybody or make you say, look, I don't care what the facts are, I could never award that much money to anybody? don't see any hands. Thank you. I appreciate that.

I have one final question before I sit down, and that is if there was anything that, you know, you wished I'd asked, I'm sitting here, I'm trying to find out if you have any leanings one way or another, is there any question that you, if only Mr. Davis had just asked this one question, I would have raised my hand and would have said something?

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anybody have anything like that that they'd like to tell me
before I sit down and Mr. Dacus comes up here?
     All right. Well, thank you very much for your time.
                                                           And
if you're selected for this jury, we look forward to
presenting this case to you.
     Thank you.
          THE COURT: All right. Defendants may now address
the venire panel. Mr. Dacus, would you like a warning on your
time?
          MR. DACUS: Yes, Your Honor. Would you let me know
when I have five minutes, please?
          THE COURT: I'll warn you when you have five minutes
remaining. You may proceed.
          MR. DACUS: Thank you.
     Good morning. As I said, I'm Deron Dacus, and it's
really my privilege to represent the men and women who work at
CommScope. I want to say up front to you, and I know they
want me to say to you, a very sincere thank you for your jury
service. It is not lost on anyone at this table that you have
things you need to be doing -- tending to kids, grandkids; jobs
to be at. And what I want you to know is we would not be here
if this case was not important to CommScope. It's very
important. And if you serve on the jury, I think it will be
pretty clear pretty soon why it's important.
     The Judge does give us a few minutes just to talk about
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at least our perspective of this case, so I want to do that. It's not the time for me to present you with evidence, but as I ask you questions today, I want you to know how we see the case. As TQ Delta's counsel told you, TQ Delta is not the inventor on these patents. They are an investment firm that bought these patents from a company by the name of Aware. And when they bought the patents, they bought the patents from Aware subject to a promise and an agreement that Aware had made on how they could use these patents and what they could charge folks in the industry for them. MR. DAVIS: Your Honor, I feel like this is beyond overview of the case and into argument. I'm going to object at this time. THE COURT: I agree, Mr. Dacus. MR. DACUS: I'll stay with the facts. THE COURT: It needs to be either more high level or you need to move on. MR. DACUS: Understood, Your Honor. So at the end of the day, what I think you'll be asked in this case, what I think the Judge will ask you, is whether or not TQ Delta abided by that agreement. The facts also will

show you at a high level that, with respect to this claim of

infringement, that the CommScope products do not use or

infringe the TQ Delta patents.

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And as you've been told, there are seven patents at issue, and we'll show you and prove to you that four of those seven patents are, in fact, invalid. And that's your decision to make, of course.

> THE COURT: Now let's move on.

MR. DACUS: Absolutely, Your Honor. Thank you.

So here's what I want to do before I start asking you questions. You were kind enough to tell us a little about yourself. Before I start asking you questions, I want to be --- return the favor and tell you a little bit about me. wish it was interesting enough that someone was going to write a book or make a movie, but that's not the case.

I grew up down the road in Gilmer, Texas; graduated from Gilmer High School; was fortunate enough to get a baseball scholarship and go to Texas A&M, was fortunate enough to graduate from Texas A&M and then went to law school at Baylor like Judge Gilstrap where I met my wife to whom I've been married now for 29 years.

We have two kids, both of whom are out in the world making their way now. Neither of them have a spouse, but since we're empty nesters, our greatest hope is that we have some grandkids soon so that we have something to do.

Now, let me -- let me start with this, and that is, does anyone know Bo Davis, the gentleman who's representing TQ Delta and who was just talking to you?

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I know you did, Mr. Northcutt. Let me ask you just one
 1
     question about that, Mr. Northcutt.
 2
               THE PANEL MEMBER: Yes.
 3
               MR. DACUS: So sometimes we know folks just by
 4
             Sometimes we know folks because we go to dinner with
 5
 6
     them and socialize with them. Which is the case with you and
     Mr. Davis?
 7
               THE PANEL MEMBER: I think Mr. Davis no longer lives
 8
     in Longview, but we were in the same Sunday school class
 9
     briefly. He had a daughter that was the same age as my
10
     daughter, and they were in school together. And I would see
11
     him out around town. I mean, we never went to dinner together
12
     if that's what you're asking, but I would see him around town.
13
               MR. DACUS: So you know my question is, does that
14
     give the TQ Delta folks any sort of advantage in this case at
15
16
     all just because you know Mr. Davis?
17
               THE PANEL MEMBER: No, it does not. I can follow
     the law and be fair and impartial.
18
               MR. DACUS: You would listen to the evidence and
19
     make a decision based on the evidence?
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               THE PANEL MEMBER: Yes.
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               MR. DACUS: All right. Thank you, sir.
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          Mr. Davis introduced some other folks on his team--Mr.
23
     Fink, Mr. Hurt, and others. Did anyone know any of those
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             If you did, would you raise your hand and let me know?
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And, of course, Mr. Pete McAndrews is sitting at the table for TQ Delta. Anyone know Mr. McAndrews? Would you raise your hand and let me know? Okay. Very good. Let me ask you a question that I think is probably the easiest one of the day, and that is, how many of you believe that you should, when you make a promise or you make an agreement, how many of you believe that you should keep that promise or agreement that you made? Raise your hand. Is there -- and I'll ask the converse of that. Anyone believe that you don't have to keep your promises in your agreements? I'd like to know that, too. Okay. Let me ask you, Mr. Gage, if I could -- I mean, Mr. Hodges, if I could, and he'll need the microphone, please, sir. Let me sort of refine what I asked you about keeping your promises in agreements. What if you figured out or you learned that if you made your -- after you made your promise or your agreement, that you could make more money if you broke it? Do you think in that circumstance, it's okay to break your promise or your agreement? THE PANEL MEMBER: No, sir. MR. DACUS: Okay. Would you hand the microphone to Mrs. Lowery there? I'm going to ask you the same question. THE PANEL MEMBER: Yes. MR. DACUS: Yes, Mrs. Lowery. If you find out after

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you make your promise that you could make more money if you
break your promise, do you think that's okay in that
circumstance?
          THE PANEL MEMBER:
                            No. You need to renegotiate.
          MR. DACUS: Okay. What if you found out, Boy, I can
make a whole lot more money?
          THE PANEL MEMBER:
                             No.
          MR. DACUS: Still not okay?
          THE PANEL MEMBER:
                            No.
          MR. DACUS: So let me ask the whole panel, does
anybody here -- and it's fine, of course, if you do. Does
anybody here believe that, look, if you find out you can make
more money after you made your promise or made your agreement,
then it's okay to break that promise or agreement? Anybody in
that boat at all? Okay.
     Let me change topics on you. And I'm going to ask you a
question, and I'm not asking in any sort of court setting.
                                                           As
the Judge said, I'm not here to pry into your personal
business in any way, so I mean this at a very high level.
many of you, and I'm sure it's a lot, have ever been falsely
accused of something? And, again, I'm not talking about in a
courtroom.
            I'm just talking about in everyday life, somebody
said you did something you didn't do. Anybody in that
category? Lots of folks. Right?
     So, Mr. Owens, let me ask you about that. To be clear,
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the Judge will want you to stand up. I'm not asking any
details.
          You understand? So don't tell me any details.
          THE PANEL MEMBER: Okay.
          MR. DACUS: When you're in that situation, do you
feel like you have the right to defend yourself?
          THE PANEL MEMBER: Sure.
                                   Sure do.
          MR. DACUS: You understand that CommScope is here
because they've been accused of wrongdoing. You understand
that?
          THE PANEL MEMBER: Yes.
          MR. DACUS: And so when you get accused of
wrongdoing, you really have two choices. Right? You can
either tuck your tail and run or you can stand up and defend
yourself. Do you agree?
          THE PANEL MEMBER: Yes.
          MR. DACUS: And do you think it's okay to stand up
and defend yourself?
          THE PANEL MEMBER: Most definitely.
          MR. DACUS: Anybody disagree with Mr. Owens?
Anybody think that if you get accused of something, then
you-all disagreed to it? Okay.
     Let me ask you this, Mr. Owens. In your experience--and,
again, I'm not asking the details -- did you find -- do you find
that sometimes when people accuse you of wrongdoing, that it's
frustrating because in order to tell your side of the story,
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it takes a little bit of time and it takes someone to actually
 1
     listen to you so that you get the actual facts and truth out
     there?
 3
               THE PANEL MEMBER: Correct.
 4
               MR. DACUS: That's frustrating, isn't it?
 5
 6
               THE PANEL MEMBER: It sure is, yes.
               MR. DACUS: Do you understand that in this case
 7
     CommScope's going to have to sit here and listen to these
 8
     folks put on their case before we get to talk?
 9
               THE PANEL MEMBER: Yes.
10
               MR. DACUS: You'd be willing to sit there and listen
11
     to all the evidence before you make a decision in the case.
12
     Is that true?
13
               THE PANEL MEMBER: Correct.
14
               MR. DACUS: All right. Thank you, sir.
15
16
          Mrs. Ruest, can I ask you some questions, please, ma'am?
17
     And I bet these will be easy for you. Did I hear you say you
     had six kids?
18
               THE PANEL MEMBER: Yes.
19
               MR. DACUS: And did I hear you say you home-schooled
2.0
     them?
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               THE PANEL MEMBER: Yes.
2.2
               MR. DACUS: You are a busy lady, aren't you?
23
               THE PANEL MEMBER: Yeah.
24
               MR. DACUS: So let me ask you this. Did any of
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those six kids, did they ever get in squabbles or little
 1
     fights?
 2
               THE PANEL MEMBER: Oh, yeah.
 3
               MR. DACUS: Oh, yeah.
 4
               THE PANEL MEMBER: Yeah. Sure.
 5
 6
               MR. DACUS: And let me ask you how you resolve it.
     Now, being the good -- have you ever found that kids, when
 7
     they get caught squabbling or fighting, that those kids run to
 8
     their mama to tell their story first?
 9
               THE PANEL MEMBER: Oh, yes, yeah.
10
               MR. DACUS: That always happens, doesn't it?
11
               THE PANEL MEMBER: Tends to.
12
               MR. DACUS: Do you know what is in us that makes us
13
     want to tell our story first? I don't.
14
               THE PANEL MEMBER: Well, you know, you don't want to
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16
     get in trouble. You want to be the first one to tell your
17
     side of the story. And so you are already have that -- you've
     got that at the beginning. And, you know, if they come to you
18
     crying and they're hurt, I mean, you're automatically on the
19
     defense, you know, what -- what happened?
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               MR. DACUS: Okay. So let me ask you this. Being
     the good mom that you are, do you always accept that first
2.2
     kid's story without getting to hear the second kid's story and
23
     his version of the facts?
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               THE PANEL MEMBER: Well, if I was being honest, I
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probably sometimes jump to conclusions depending on the kid,
 1
     but I do try to hear both sides of the story.
 2
               MR. DACUS: Do you know why I'm asking you these
 3
     --what seem to be silly questions?
 4
               THE PANEL MEMBER: So I can hear both sides of the
 5
 6
     story.
               MR. DACUS: So you understand these folks at this
 7
     table brought this lawsuit. You understand that?
 8
               THE PANEL MEMBER: Yes.
 9
               MR. DACUS: And so under the law, they get to talk
10
     first and they get to put on their case first. You understand
11
     that?
12
               THE PANEL MEMBER: Yes.
13
               MR. DACUS: And we -- we have to go second, but we
14
     do have a story to tell. You understand?
15
               THE PANEL MEMBER: Uh-huh.
16
17
               MR. DACUS: And so in this case would you agree,
     just like you do at home, to listen to both sides of the story
18
     before you make a decision?
19
               THE PANEL MEMBER: Yes. Yeah.
2.0
2.1
               MR. DACUS: Okay. Thank you. So you can
     quess -- thank you very much.
2.2
          You can guess what I'm going to ask the panel. You know,
23
     these folks are going to start their case today. We won't get
24
     to talk until next week. Is there anyone who says, you know
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I just don't know if I can listen to the full story
 1
     before I make a decision.
 2
          Anybody in that boat? Okay. Very good.
 3
          Let me talk with a few of you on an individual basis
 4
 5
     based on some of the responses.
 6
          So, Mr. Sundby, can I ask you a few questions, please,
     sir? Did you say you worked at Texas Instruments, sir?
 7
               THE PANEL MEMBER: Yes, that's correct.
 8
               MR. DACUS: Okay. So sometimes when folks work at a
 9
     place, they love it. Sometimes when folks work at a place,
10
     they hate it. Sometimes they respect their employer.
11
     Sometimes they don't respect their employer.
12
          So how do you feel about Texas Instruments? Is it a
13
     place that you respect the work that goes on there, you
14
     respect the -- the company? Just help me understand.
15
16
               THE PANEL MEMBER: Yeah, I respect them and I worked
17
     there. I have no complaints about them or, you know, anything
     either way.
18
               MR. DACUS: Okay.
19
               THE PANEL MEMBER: I'd work there again.
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               MR. DACUS: Perfect. That's what I needed to know.
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     Let me ask you, while I have you, do you understand, sir -- I
2.2
     heard you say earlier and I think I saw it in your
23
     questionnaire also that you believe patents should be
24
     protected. Correct?
25
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1	THE PANEL MEMBER: Yes, that's correct.
2	MR. DACUS: And you'll hear in the course of this
3	case we don't dispute that at all. We agree a hundred
4	percent, and there's reasons for that.
5	Here's my question to you: In this case, we believe four
6	of these seven patents are actually invalid and that we're
7	going to ask the jury to find that they're invalid.
8	My question to you, sir, is, given what you said about
9	patents, would you have any problem in finding a patent
10	invalid based on the law that Judge Gilstrap gives you?
11	THE PANEL MEMBER: No. As long as it's expired and
12	it's invalid.
13	MR. DACUS: So to to make sure we're we're
14	clear here, you you saw the patent video this morning?
15	THE PANEL MEMBER: Yes.
16	MR. DACUS: Okay. And you saw in the patent video
17	where it said that the process between the person who applies
18	for a patent and the Patent Office, it's sort of a secret
19	process and no one else participates in that. Did you see
20	that?
21	THE PANEL MEMBER: Yeah.
22	MR. DACUS: Did you know that before you came to
23	court today?
24	THE PANEL MEMBER: No.
25	MR. DACUS: Candidly, before I started doing patent

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cases, I didn't, either. So what we expect to do in this case is to present evidence that the Patent Office did not have, and then we would ask the jury, whoever is on the jury, to find that patent invalid based on the instructions that Judge Gilstrap gives to the jury. Do you understand that process? THE PANEL MEMBER: Oh, yeah. MR. DACUS: And you would have no -- if indeed we show you that these patent concepts were not new, you would have no problem finding that the patents are invalid. Is that fair? THE PANEL MEMBER: That's fair. MR. DACUS: Okay. Thank you, sir. So here's what I need to know from the whole group. Before you came here today, you probably didn't know that juries make the determination as to whether or not a patent is valid or invalid. So what I want to know, is there anyone who has even the least bit of hesitation about finding a patent invalid that the Patent Office has already issued? Would you raise your hand and let me know? Okay. Let's see. Mrs. Welch, can I talk to you? Let me get you the microphone. I probably should have asked you that question about those kids. You got a bunch of grandkids, it sounds like. THE PANEL MEMBER: And great grandkids, yes. MR. DACUS: So if we show you and prove to you that these patents are invalid, would you have any problem finding

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that, ma'am?
 1
               THE PANEL MEMBER:
                                  No.
 2
               MR. DACUS: Okay. And let me reach over and talk to
 3
     Mrs. Alexander, if I could.
 4
          Before I ask you that ultimate question, let me ask you
 5
 6
     this, Mrs. Alexander: Did you say you served on a criminal
 7
     jury?
               THE PANEL MEMBER: Yes.
 8
               MR. DACUS: Do you remember in that criminal jury
 9
     that the instructions to you were that the Defendant was
10
11
     presumed innocent?
               THE PANEL MEMBER: Yes.
12
               MR. DACUS: Do you remember that?
13
               THE PANEL MEMBER: Yes.
14
               MR. DACUS: And based on what I heard you say, y'all
15
16
     found the Defendant guilty. Right?
17
               THE PANEL MEMBER:
                                   Yes.
               MR. DACUS: So even though there was a presumption
18
     of innocence, y'all found enough evidence to find him quilty.
19
     Correct?
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               THE PANEL MEMBER: Correct.
2.1
               MR. DACUS: Here's why I ask you that. I expect
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     that Judge Gilstrap is going to instruct you that a patent is
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     presumed valid. Okay? Just like in your criminal case. If
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     we show you and prove to you that these concepts and these
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patents were not new, would you be able to find them invalid
even though it's an issued patent?
          THE PANEL MEMBER: I think so.
          MR. DACUS: Okay. That's what I need to know.
Thank you.
    Mr. Mehrens, can I ask you one question, please, sir?
know from what you said this morning and from your
questionnaire that you said your brother-in-law had a patent
on a fishing lure. Right?
          THE PANEL MEMBER:
                           Yes.
          MR. DACUS: Okay. So here's my question to you.
These folks at this table over here have patents. You
understand? Does the fact that your brother-in-law has a
patent on fishing lures cause you to lean in any way towards
the TQ Delta folks?
          THE PANEL MEMBER: No.
          MR. DACUS: Not in their favor?
          THE PANEL MEMBER: No.
          MR. DACUS: If you sat on this jury, you'd sit and
listen to the facts and make a decision based on the facts?
          THE PANEL MEMBER: Yes, sir.
          MR. DACUS: Can you hand that over to Ms. Lowery?
Because I think she may be in the same boat.
     Did I read on the questionnaire that your father-in-law
has a patent?
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THE PANEL MEMBER: I was mistaken. He worked with a
company and his designs were patented through the company, so
it's different.
          MR. DACUS: Anything about that that would cause you
to lean in favor --
          THE PANEL MEMBER: No. They don't talk about it at
all. It just came up a few times years ago.
          MR. DACUS: Perfect. Thank you, ma'am.
    Ms. Patel, can I ask you a question, please, ma'am?
heard you say this morning and I think I saw it on your
questionnaire that you studied business law in college.
          THE PANEL MEMBER: Yes. I started off, but then I
got married, so -- to a business owner, and I did two years in
business law.
                           Just general business law?
          MR. DACUS: Okay.
          THE PANEL MEMBER: General. General.
          MR. DACUS: Is there any reason why you didn't
become a lawyer?
          THE PANEL MEMBER: No. I just -- I joined him in
the business and I started liking it, so I just stuck with
that.
          MR. DACUS: Understood.
          THE PANEL MEMBER: Maybe in the future.
          MR. DACUS: Understood. So in those business law
courses did you learn anything about patents or how patents
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work or the patent system?
 1
               THE PANEL MEMBER:
                                  No, sir.
 2
               MR. DACUS: Okay.
 3
               THE PANEL MEMBER:
                                  No, sir.
 4
               MR. DACUS: So anything about that business law
 5
 6
     background that would cause you to lean one way or another
     towards either party here?
 7
               THE PANEL MEMBER:
                                  No, sir.
 8
               MR. DACUS: Thank you very much.
 9
               THE PANEL MEMBER: Thank you.
10
               MR. DACUS: Mr. Nenninger, I need to follow up with
11
     you, if I could, sir.
12
          So you have -- you work in an IT capacity; information
13
     technology?
14
               THE PANEL MEMBER:
                                  That's correct.
15
16
               MR. DACUS: Okay. And did I understand you to say
17
     that you have some familiarity with how internet is provided
     or internet service is provided to the county offices?
18
               THE PANEL MEMBER: Correct.
19
               MR. DACUS: And did I understand you to say it's
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     provided by cable?
               THE PANEL MEMBER: Through the local cable company,
2.2
23
     yes.
               MR. DACUS: Right. So you understand that internet
24
     service can be provided in a number of different ways.
25
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1	Correct?
2	THE PANEL MEMBER: Yes, sir.
3	MR. DACUS: One is DSL, another is through
4	THE PANEL MEMBER: Satellite; fiber.
5	MR. DACUS: Yes, sir. And as I understood it and
6	what I want to confirm is, your experience with modems is on
7	internet being provided through the cable television cables.
8	Correct?
9	THE PANEL MEMBER: For some of our locations, yes,
10	sir.
11	MR. DACUS: But you don't have any experience with
12	DSL?
13	THE PANEL MEMBER: We had DSL in the county when we
14	first got here provided by AT&T, but that went away a long
15	time ago because of the slow speed and demand.
16	MR. DACUS: And that's what I wanted to sort of
17	pinpoint. So you have experience with DSL in the past, but
18	that has been replaced by providing it by cable now. Is that
19	right?
20	THE PANEL MEMBER: Provided by local phone service
21	now. Correct.
22	MR. DACUS: Okay. That's what anything about any
23	of that that would cause you to lean towards one side or the
24	other in this
25	THE PANEL MEMBER: No, sir.

1	MR. DACUS: Okay. Thank you very much.
2	Ms. Pattison, can I ask you a question? And when I said
3	the word 'cable', it triggered the question that I needed to
4	ask you.
5	I wrote down that your husband tests cable as part of his
6	job.
7	THE PANEL MEMBER: Yes.
8	MR. DACUS: What kind of cable are we talking about?
9	THE PANEL MEMBER: Micro cable, windmill cables;
10	just every cable you can think of.
11	MR. DACUS: Okay. So not like cables just to hold
12	something. You are talking about electrical cables that can
13	carry electrical current or
14	THE PANEL MEMBER: I believe so. I believe.
15	MR. DACUS: Okay. Anything about that that would
16	cause you to lean one way or another here?
17	THE PANEL MEMBER: No.
18	MR. DACUS: And I think I had noted something on
19	your questionnaire also that I wanted to ask you specifically
20	about.
21	In this case if we show you and prove to you that these
22	four patents are invalid, would you have any problem rendering
23	a verdict?
24	THE PANEL MEMBER: No.
25	MR. DACUS: Okay. Thank you, ma'am.

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There is -- in the course of this case we're going to talk about something called standards and standard setting organizations. And to be honest with you, I wasn't super familiar with it before these kinds of cases. And let me tell you what we're talking about when I say 'standards'. So if there's an electrical outlet here, that electrical outlet needs to be able to handle any type of device that you plug into it made by any manufacturer. So there are standards that govern what that -- how that electrical outlet should work so that we can plug in whatever we have--phone, computer, lamp, whatever. And there are standard setting organizations that oversee and direct and implement these standards. So what I want to know is, does anyone here have any experience or knowledge about standards or standard setting organizations? Anybody have that experience or knowledge? Mr. Nenninger, is that just as a result of your information -- your IT work? THE PANEL MEMBER: Yes. The IEEE standards are associated with a lot of things implemented within our Cisco phone system. MR. DACUS: Anything about that that you think would influence you if you sat on a jury in this case? THE PANEL MEMBER: No, sir. MR. DACUS: Thank you, sir. Ms. Lancaster, can I ask you a question, please, ma'am?

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And my first question is my most important. I saw on your
 1
     questionnaire that you got some affiliation with JB Hot Links.
 2
               THE PANEL MEMBER: Yes.
 3
               MR. DACUS: What's the affiliation?
 4
               THE PANEL MEMBER: My parents own it.
 5
 6
               MR. DACUS: The one in Gilmer or the one in Hughes
     Springs?
 7
               THE PANEL MEMBER:
                                  The one in Hughes Springs.
 8
               MR. DACUS: Okay. Does the one in Hughes Springs
 9
     have any affiliation with the one in Gilmer?
10
               THE PANEL MEMBER:
11
                                  No.
               MR. DACUS: Okay. Do you know there's a JB Hot
12
     Links in Gilmer?
13
               THE PANEL MEMBER: Yes, sir.
14
               MR. DACUS: Okay. So here's my question to you.
15
16
     the issue of these patents and the issue --
17
               THE PANEL MEMBER: I'm sorry. I'm really lost when
     it comes to all this. Even the video I was a little confused
18
          I'm not going to lie.
                                 So...
19
               MR. DACUS: Thank you for being honest. And you
2.0
2.1
     know what? I bet most folks are in your shoes.
               THE PANEL MEMBER:
                                  Okay.
2.2
               MR. DACUS: But let me tell you that's not a
23
               So what these lawyers' job is and our job is -- and
24
     problem.
     you're going to hear from a bunch of experts in this case--is
25
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to make this stuff understandable. Okay?
 1
               THE PANEL MEMBER: Okay.
 2
               MR. DACUS: So if we do that and we show you that
 3
     these four patents, four of the seven that they bring forward
 4
     are invalid -- in other words, like the video said, we show you
 5
 6
     that it wasn't a new concept in the patent--would you have any
     hesitation about finding them invalid?
 7
               THE PANEL MEMBER: If I can understand it, no.
 8
               MR. DACUS: Okay. As long as we do what we're
 9
     supposed to do and prove it to you, you could do that. Is
10
     that right?
11
               THE PANEL MEMBER: Yes.
12
               MR. DACUS: All right. Thank you, ma'am.
13
               THE COURT: You have five minutes remaining,
14
     counsel.
15
16
               MR. DACUS: Thank you, Your Honor.
17
          So I do want to talk a bit, just for a second, about what
     Mr. Davis finished up with, and that is the amount of money
18
     that TQ Delta is asking from CommScope. And he told you
19
     that's $90 million, and that's true. That is what they're
2.0
2.1
     asking for.
          Here is what I need to know. And let me -- the back row
2.2
     Ms. Lowery, I hadn't had a chance to talk to you. That's a
23
     heck of a way to refer to you, isn't it?
24
               THE COURT:
                           Why don't you just say 'No. 12'.
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I will do that Your Honor. That's much MR. DACUS: better. Thank you. So Ms. Lowery, you understand that we hope you don't find that CommScope infringes, and we hope you find these patents are not invalid [sic], but if you sit on this jury you're going to make that decision, not me. You understand? THE PANEL MEMBER: Yes. MR. DACUS: Then they're going to ask you to award \$90 million. So my question is, if you find CommScope actually infringes these patents and you find the patents are valid, would you also require them to prove what the reasonable amount of money that's due to them would be? THE PANEL MEMBER: Yes. MR. DACUS: Okay. In other words -- it's a poor question. I apologize. But you don't think that just because someone infringes a patent that the patent owner should be able to demand whatever amount of money they want, do you? THE PANEL MEMBER: I don't know that. I mean, are we talking about he stole a Kleenex and I want 90 million or are we talking about he stole half of the state and I want 90 million? So I don't know. I need more information. MR. DACUS: Perfect. That's what I needed to know. You'll listen to the facts and the evidence in the case and based on what the law the Judge gives you you'll make a decision on what the reasonable amount of money should be.

```
Is that fair?
 1
               THE PANEL MEMBER:
                                  Yes.
               MR. DACUS: Okay. Thank you.
 3
          Anyone else -- anyone disagree with Ms. Lowery? In other
 4
 5
     words, does anyone say, Hey, if you infringe the patent, then
 6
     whatever these folks want you ought to pay it? Anybody in
     that boat? Okay.
 7
          The Judge has said I'm about out of time, so here's what
 8
     I'll close with. I've done this for a while now, but I've
 9
     learned that I don't always ask the right questions. You may
10
     be sitting there thinking to yourself, You know what?
11
     lawyer should have asked this question. It sure would have
12
     helped him and he would know I shouldn't be on this jury.
13
          Is there anybody sitting there thinking along those lines
14
     that there's something you should tell us but I didn't ask the
15
     right question? Anybody in that boat?
16
17
          Okay. I'll close by saying thanks very much for your
     time and attention. Those who get to serve on the jury, we
18
     very much look forward to spending the next week with you and
19
     present outstanding evidence.
2.0
          That's all I have, Your Honor.
2.1
                                           Thank you.
               THE COURT: Thank you.
2.2
          Counsel, approach the bench, please.
23
                (The following was had outside the hearing of the
24
               jury panel.)
25
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THE COURT: All right, Mr. Davis. Does the
 1
     Plaintiff have any challenges for cause?
 2
               MR. DAVIS: No, Your Honor; no challenges.
 3
               THE COURT:
                           Mr. Dacus, does the Defendant have any
 4
     challenges for cause?
 5
 6
               MR. DACUS: No. 10 and 14 noted conflicts, but we
     don't have any for cause.
 7
                THE COURT: I will bring them up and talk to them.
 8
          Also the venire member we talked about in chambers didn't
 9
     make the panel, so that's not an issue.
10
          Thank you.
11
                (The following was had in the presence and hearing
12
               of the jury panel.)
13
               THE COURT: Ladies and gentlemen, I'm going to let
14
     most of you have a recess in just a minute. There are two of
15
     you that I'm going to ask you to stay behind so that I can
16
17
     talk to you here at the bench, and the two of you that I'm
     going to ask to stay behind are Ms. Martin No. 10 and
18
     Mr. Owens No. 14. The rest of you I'm going to release for a
19
     short recess.
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          I'm going to ask you to exit the courtroom through the
     double doors. And as you go out those double doors, just for
2.2
     your own information, if you take a left and go around the
23
     corner you'll find the water fountains and the restrooms.
2.4
          I'm going to also ask you not to leave the building; to
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stay on this floor inside the building. With the lovely weather we've had lately, you probably don't want to go outside. But don't go outside. Stay inside the building. The third thing I'm going to ask you is don't discuss anything that happened in the courtroom this morning. You're free to talk to each other if you want to. You're free not to talk to each other if you don't want to. But if you choose to talk to each other, visit about anything you like -- your family, your children, your grandchildren, whether Baylor's going to win the first game of March Madness later this afternoon; whatever you want to talk about--but don't talk about anything that's happened in the courtroom this morning. Let me make this abundantly clear. You have heard zero evidence in this case. Nothing you've heard this morning is evidence in this case. So talk about anything you'd like to, or just keep to yourself and don't talk to anybody. It's strictly up to you. But if you choose to have a conversation with one or more members of the panel, just don't discuss what's happened in here this morning. With that, I'm going to ask everybody but No. 10 and No. 14 to exit the courtroom at this time, and we'll have you back in here shortly. Thank you. (Whereupon, the jury panel left the courtroom.)

THE COURT: Be seated, please.

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And counsel, approach the bench.
 1
          Ms. Martin, would you come up and join us?
          Good morning. How are you?
 3
               THE PANEL MEMBER: I'm good.
 4
               THE COURT: This is our microphone. We're just
 5
     going to talk quietly here.
 6
          When we started this morning I asked if anybody had a
 7
     serious impediment to being able to be here throughout the
 8
     trial if they were selected, and you raised your hand. Can
 9
     you tell me about that?
10
               THE PANEL MEMBER: I have two, actually. Monday
11
     morning I'm required to be at mandatory education for my
12
     continuing nursing license, and if I skip that I am going to
13
     be suspended licensing, which means I would not be able to
14
     practice as a registered nurse right now at our local
15
16
     hospital.
17
          The second thing is I have a four-year-old daughter.
                                                                 We
     have never put any of them in daycare, and I would not be
18
     there with her.
19
               THE COURT: So how is it that you see about your
2.0
     four-year-old daughter and practice nursing at the same time?
2.1
               THE PANEL MEMBER: My husband works day shift and I
2.2
     work night shift. I work 7:00 p.m. to 7:00 a.m.
23
               THE COURT: And which healthcare facility do you
24
     work at?
25
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THE PANEL MEMBER: Christus Good Shepherd Medical
 1
     Center here in Marshall.
 2
               THE COURT: Okay.
                                 Now, having practiced law, I know
 3
     about continuing education. Ordinarily in our context as
 4
 5
     lawyers, it has to be completed before your anniversary date.
               THE PANEL MEMBER: Yes.
 6
               THE COURT: Are you at the end of the cycle?
 7
               THE PANEL MEMBER: This is not taking a licensing.
 8
     I would be suspended from the hospital. We are required to
 9
     do continuing education there annually, and that annual for
10
     Marshall specifically is on the 20th between 7:30 a.m. and
11
     5:00 p.m. that day. I am scheduled to be there between 12:30
12
     and 2:30.
1.3
               THE COURT: And this is offered at the hospital
14
     here?
15
16
               THE PANEL MEMBER: Yes.
17
               THE COURT: And it's a requirement --
               THE PANEL MEMBER: It is a requirement.
18
               THE COURT: Okay. Mr. Davis, do you have any
19
     questions of Ms. Martin?
2.0
               MR. DAVIS: I don't.
2.1
               THE COURT:
                           Mr. Dacus?
2.2
                           No, Your Honor.
               MR. DACUS:
23
               THE COURT: Ms. Martin, I'm going to let you join
24
     the rest of the panel outside. Just don't discuss anything
25
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we've talked about in here. Thank you, ma'am. 1 I'm going to excuse Ms. Martin. This appears to be 2 something that's mandatory from her employer and not ordinary 3 continuing education she can make up at another time. 4 Mr. Owens, would you join us, please? 5 6 Good morning. THE PANEL MEMBER: Good morning. 7 THE COURT: This is the microphone. We're just 8 going to talk quietly here? 9 THE PANEL MEMBER: Okay. 10 THE COURT: When we started this morning, I asked if 11 anybody had a serious problem with being able to be available 12 throughout the trial, and you raised your hand. Tell me about 13 that, please, sir. 14 THE PANEL MEMBER: I own a business in Longview and 15 16 I've got 18 employees. We recently had a fire, so part of our 17 business has been shut down. So I've had contractors there pretty much every day. Half our store was flooded. 18 It's not that I can't serve, it's just in my mind things 19 that aren't getting taken care of there may interfere with a 2.0 2.1 little bit -- like right now I'm nervous to find out if they're doing what they're supposed to be doing as far as 2.2 getting the store back open. Like I say, about half the 23 store, about 5,000 square foot, got flooded. We lost about 24 \$40,000 worth of inventory. 25

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THE COURT: Which store is it in Longview?
 1
               THE PANEL MEMBER: It's Big Daddy's Stereo.
 2
               THE COURT: Okay.
 3
               THE PANEL MEMBER: My brother -- I'm in partnership
 4
 5
     with my brother. My brother is flying out I believe either
     Sunday or Monday to go to Vegas for a conference and he's
 6
     taking two employees with him for training.
 7
               THE COURT: He's here now?
 8
               THE PANEL MEMBER: I think he's coming back from
 9
     Dallas today.
10
          One of the things -- to be honest, I would really love to
11
     serve. If I knew that I could get those people -- I didn't
12
     know -- in other words, I didn't know the trial could take a
13
     week or six days. If I could get some things lined out this
14
     afternoon -- I don't know if we have a break where I could
15
     call and make some stuff happen. I could possibly say, Hey, I
16
17
     may not be here this next week.
               THE COURT: We are going to have a break shortly
18
     where those that are selected on the jury are going to have
19
     lunch.
2.0
2.1
               THE PANEL MEMBER: Okav.
               THE COURT: That will be probably a 45-minute to
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     60-minute break.
23
               THE PANEL MEMBER:
24
                                   Okay.
               THE COURT: Then those that are selected on the jury
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will be back in here and we'll start the trial process.
 1
     during the trial every hour or hour and a half I will
 2
     generally take a recess --
 3
               THE PANEL MEMBER: Okay.
 4
               THE COURT: -- just so people get a chance to move
 5
 6
     and refocus. You will have multiple opportunities to make
     phone calls?
 7
               THE PANEL MEMBER: Okay. Okay. Okay. Okay.
 8
               THE COURT: All right. And like I said, Mr. Owens,
 9
     I know this is a particularly hard time, but jury service is
10
     always inconvenient. It's never easy.
11
               THE PANEL MEMBER: Sure.
12
               THE COURT: But I think I understand your situation.
13
          Is there anything else you need to let me be aware of
14
     that you haven't mentioned?
15
               THE PANEL MEMBER: No, not as far as the business,
16
17
     no, sir. I think if I could take care of a knew things this
     afternoon, I think it would be okay, but --
18
               THE COURT: And you mean line things out over the
19
     telephone?
2.0
2.1
               THE PANEL MEMBER: Yeah. Because I'm losing money
     every day that that part of the business isn't running, you
2.2
     know, and you don't know if insurance is going to pay and that
23
     type of thing.
24
               THE COURT: Yes, sir.
25
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Mr. Davis, do you have any questions?
 1
               MR. DAVIS:
                           I don't have any questions, no, sir.
               THE COURT:
                           Mr. Dacus?
 3
               MR. DACUS:
                           No, sir.
 4
               THE COURT: Mr. Owens, I'm going to let you join the
 5
 6
     rest of the panel outside for recess. Just don't discuss
     anything we talked about here.
 7
               THE PANEL MEMBER: Thank you.
 8
               THE COURT: Thank you.
 9
          I'm not going to excuse Mr. Owens.
10
11
               MR. DAVIS: Okay. Thank you, Your Honor.
               THE COURT:
                           How long do you need to strike your
12
     list?
13
               MR. DACUS:
                           Twenty minutes.
14
               THE COURT:
                           It's five after. 25 after, have them to
15
16
     the Courtroom Deputy.
17
                (The following was had in open court.)
               THE COURT: All right. While counsel exercise their
18
     peremptory challenges, the Court will stand in recess.
19
                              (Brief recess.)
2.0
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               THE COURT: Be seated, please.
          Ladies and gentlemen, if you will listen carefully, as
2.2
     your name is called please come forward and take a position in
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     the jury box.
24
          Let me explain to you how we're going to do this.
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going to seat eight members of the panel as the jury in this I'm going ask the first four jurors to position themselves on the front row of the jury box, the second four jurors, 5, 6, 7, and 8, to position themselves on the second row or the back row of the jury box. Whoever is called as the first juror, if you will enter the front row of the jury box and go all the way to the end and stand in front of the last Juror No. 2, if you'll enter the front row of the jury box and go down and stand in front of the third chair so there is an empty chair between you and Juror No. 1. I want to space the first four jurors on the front row with a chair between each of the four members and the second four members of the jury on the second row with a chair between each of the four members. That way there will be plenty of room throughout the trial. Those will be the positions you'll be in throughout the trial. And I'm going to ask all eight members of the jury to remain standing in the jury box until everybody is in place and I give you further instructions. So with that I'm going to ask Ms. Brunson our Courtroom Deputy to call the names of the eight members of the panel that have been selected to serve as jurors in this case. THE CLERK: Karen Welch, Trevor Mehrens, Kathy Gage, Brittanie Lowery, Labrisha Alexander, Ivan Becerril, Dakota Jennings, Julie Lancaster.

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THE COURT: All right. Please be seated, ladies and gentlemen.

Those of you on the panel that were not selected to serve in this case, I'm about to release you. Let me give you a couple of instructions as you leave the courtroom. will exit to the right as you go through the double doors in the back of the courtroom, you will pass directly past the Clerk's Office. Please be sure you stop in at the Clerk's Office. Leave these very valuable plastic numbers you have pinned to your clothing. We will use them again with the next jury. Don't take them home with you.

If you have any questions about your service today, if you need any documentation for an employer to indicate where you've been today rather than your place of work, any kind of those logistical questions, Ms. Clendening and the Clerk's Office will be happy to help you.

Also ladies and gentlemen those of you that weren't selected, I want you to understand that you have performed very real and important public service by being here. could not have selected these eight citizens to be the jury without all of you here. And all of you had other places to be this morning, other things to do in your lives that are important, and you set those aside and you appeared as summonsed and you presented yourself for jury service this morning. And even though you weren't selected, you have done

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very real and important public service, and the Court
recognizes that, the Court thanks you for it. And I speak on
behalf of not only myself and my staff but these parties,
these lawyers, everybody in this part of the courtroom
appreciates and values what you've done, because without you
the system could not work as it's intended. So thank you,
ladies and gentlemen. Thank you very much.
     Those of you not selected to serve on this jury are now
excused.
          (Whereupon, the jury panel left the courtroom.)
          THE COURT: Be seated, please.
     All right. At this time I'm going to ask Ms. Brunson as
Courtroom Deputy to administer the oath to the members of the
jury.
     Ladies and gentlemen, if you'll stand, please, and raise
your right hands.
          (Whereupon, the oath was administered by the Clerk.)
          THE COURT: Please be seated.
     Ladies and gentlemen, I'm about to excuse you for lunch.
I need to give you a few instructions before I do that.
     First of all, I have entered an order that throughout
this trial lunch will be brought to you each day in the jury
room by the Clerk's Office. You will not need to leave the
building. You will not need to bring your Lunch. You will
not need to go out in the community and find a place to obtain
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Lunch will be brought to you each day in the jury And that will be more convenient for you, it will save us time, it will allow us to move the trial of this case forward more efficiently.

Also, ladies and gentlemen, while you're at lunch today, please take an opportunity to let Ms. Clendening have a working cell phone number for you. It is possible that during the course of this trial something unexpected might arise where we would need to reach you overnight or before you are back in court the next morning. That's not likely, but in the unlikely event that were necessary, she would need a good working cell phone number for each of you. So please make sure you share that with her over the lunch break.

Also, I need to give you a few additional instructions about your conduct as jurors.

First of all, ladies and gentlemen, do not discuss this case with anyone. And when I say don't discuss the case, I mean don't communicate about it in the broadest possible terms. One of the fundamental rules of the jury trial system is that when you retire to the jury room after all the evidence has been presented to you over the course of the trial and you will be asked at that point to answer certain questions which will be given to you by me in writing, those written questions will be discussed by the eight of you among each other in the jury room in an effort for you to reach a

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unanimous decision about how to answer those questions.

It is absolutely fundamentally essential that the only information you have to draw upon in answering those questions must have come from the trial of this case, from the witnesses who testified under oath and subject to cross examination during the course of the trial, and the documents and other tangible evidence that the Court has admitted under the rules of evidence into evidence as exhibits in the trial. witnesses' testimony, the exhibits the Court has admitted, those must be the sole source of the information that you draw upon to answer the questions that will be asked of you after all of the evidence has been presented.

Therefore, it is absolutely essential that there be no outside information that becomes a part of this process. are not to consider your own personal experiences with anything that's presented during the trial. You're not to do any outside research. If you hear something during the course of the trial, you're not to go home at night and get on the internet and try to find out anything more about it. You're not to research anything about the case, not anything about -don't pull up the biographies of these lawyers. Don't do searches of these parties.

It is absolutely essential that the only information you have to draw upon when you answer the questions which the Court will present to you after all the evidence is presented

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must come only from the evidence presented in this courtroom during this trial. Therefore, it is absolutely essential that you not communicate with anyone during the course of the trial.

And that means not with the eight of yourselves. Until all the evidence is presented and I direct you to retire to the jury room and to deliberate on those questions, which you will hear referred to as the verdict in this case, it is absolutely essential that you not communicate with anyone, including the eight of yourselves.

Now, when you've heard all the evidence, when you've heard my instructions on the law, when you've heard counsel's closing arguments and I direct you to retire to the jury room and to consider those questions set forth in the verdict form and render answers to those questions, at that point, but not until, you not only may discuss the evidence among yourselves; you must discuss the evidence among yourselves in an effort to reach a unanimous decision about how to answer those questions. But until that point you must not only not communicate in any way with anyone else about this case; you must not communicate among yourselves about this case.

So when you're on recess, when you're on lunch, when you're leaving the courthouse and walking down the front steps together, you're not to talk about the evidence. You're not to discuss any of the testimony. It's only after all the

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evidence is presented, after the final instructions have been given to you on the law which I will supply and the arguments have been presented, the closing arguments have been presented by the lawyers, and I direct you to deliberate on your verdict, then everything changes and you must discuss the evidence. But before then you must not communicate in any way about the evidence.

If you do, and if you allow any information to come in other than the testimony of the witnesses and the evidence presented during this trial, then it risks the entire process and it may, depending on how it happens, if it happens, it may cause me to discharge you, declare a mistrial, to impanel a new jury, and to start this process all over again. And there will be literally tons of time and effort and money wasted if that should happen.

So of all the instructions I give you, all of them are important, but I give you this one first because it may be the most important of all the instructions I give you. You must not communicate with anybody about this case in any way.

And again, when I say 'communicate', I mean it in the broadest sense of the word. If any of you are social media users, don't post anything on Facebook, don't tweet on Twitter, don't use Instagram, don't use any social media That's communication. Don't email, don't text, platform. don't write a letter, don't talk to anybody--communication in

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the broadest sense of the term. Do not communicate with anyone about this case.

And let me just say this just out of human experience.

When we get finished today and you go home, wherever you live, unless you live alone, whenever you walk through the door the first thing you're going to hear is, Well, what happened in federal court in Marshall today. Don't even try to answer that question, because if you even try to answer it you'll almost assuredly violate this instruction I'm giving you. So when you get that question, when you walk through the door, just say, That very stern federal judge told me not to talk about it and I'm not going to talk about it until I've been released as a juror and the trial is over. Blame it on me. That's part of why I'm here. But don't communicate in any way with anyone about this case.

Also, ladies and gentlemen, I don't think it's likely--as a matter of fact, I think it's unlikely--but this is an important case and there are no unimportant cases that make it to a jury trial in a federal court, so because it's an important case, it is possible that some third party, some outside person may try to approach you during the course of the trial and attempt to influence you as to how you might decide the issues in this case. If that should happen, you should immediately tell Ms. Clendening, she'll inform me, and the Court will deal with it. I don't think it's likely, but I

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can't tell you it is beyond the realm of possibility. So if that should happen, if you're approached by anybody as a juror during this trial, either here or at home or wherever, and anything about that seems awkward or improper to you in any way, then you should let Ms. Clendening know and she'll advise me. Again, I don't think it's likely, but I can't tell you that's beyond the realm of possibility.

Also, ladies and gentlemen, over the course of this trial -- this is a small courthouse as federal courthouses go; there are one set of steps and one entrance going in and out through the front of the building--invariably there are going to be times as you come in the mornings, as you leave in the evenings, when you're on breaks for lunch, that you may come in contact with one or more of these lawyers or one or more of the witnesses or one or more of the support staff that are working with these two trial teams. Let me just tell you, if that should happen they're not going to speak to you. If you come in tomorrow morning and one of these lawyers is walking down the steps in the opposite direction and passes right by you, he or she's not going to say, Good morning, how are you doing, because I have instructed them not to communicate with you in any way. So if that happens and somebody related to this trial in any way walks right by you and doesn't engage in conversation, is not friendly and gregarious, like we mostly are in East Texas, do not hold that against them.

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think they are being rude or unfriendly; understand that they are following my instructions. Because, again, it goes back to that first instruction--you must have no information and no communications from any source other than the testimony presented under oath during the trial subject to cross examination, and the documents and exhibits that the Court admits into evidence, and that must be the sole universe of the information that you have before you and that you draw upon when at the end of the trial you retire to deliberate on your verdict and come up with answers to the questions you'll be asked.

That's a fundamental principle in this whole process, and many of these instructions, like the one about the trial teams not communicating with you, all relate back to that first premise -- that that is the sole basis upon which you should decide how to answer the questions in the verdict form.

Let me give you one other bit of information then I'm going to release you for lunch, ladies and gentlemen.

Over the course of the last soon to be 12 years, I have had jurors tell me, because I uniformly -- after the trial is over I will visit with the members of the jury and I will thank them for your service, and during those discussions after the trials are over, jurors in this area tell me over and over again they would much rather be here a longer day each day and be away from their homes and their work and their

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family a shorter total number of days than if it were done the other way.

I know judges in other parts of the country who start at 10:00 in the morning and they quit at 4:00 in the afternoon and they don't hold court on Friday so they can catch up with all their other business. That's not the way I will try this We will start each morning at 8:30. We will have a break for lunch, we'll have a mid-morning recess where you'll have a chance to stretch your legs and get a drink of water, we'll have an afternoon recess, maybe two, but we won't stop at 4:00. And we won't stop at 5:00. We will probably go somewhere in the neighborhood of 6:00 each evening.

And if we start at 8:30 and we go to 6:00 and we take limited breaks, we can try this case in a week or close to it. If we do it like it's done in some other places where you start mid-morning and you quit early afternoon, it will take us two weeks or longer to try this case. So be aware, let the people that you live with understand what your approximate schedule is going to be over the course of this trial.

You'll need to -- I know many of you -- there are six counties that make up the Marshall Division from which jurors are drawn for trials in this court, so I know several of you have distances to drive each morning and each evening going back and forth. Plan for that. Check the weather. Juries are like a convey of ships -- we only move as fast as our

(Lunch recess.) 1 THE COURT: Be seated, please. 2 Subject to the Court's preliminary instructions, is the 3 Plaintiff prepared to go forward with its opening statement? 4 MR. DAVIS: We are, Your Honor. 5 THE COURT: 6 Is Defendant ready? MR. DACUS: Yes, Your Honor. 7 THE COURT: Let's bring in the jury, please. 8 (Whereupon, the jury entered the courtroom.) 9 THE COURT: Welcome back from lunch, ladies and 10 gentlemen. Please have a seat. 11 Ladies and gentlemen of the jury, I have some additional 12 instructions I need to give you on the record before we 13 proceed to hear the opening statements from the attorneys for 14 the parties and then get on to the witnesses and the evidence. 15 You've been sworn as the jurors in this case, and as I've 16 17 told you, you, the jury, are the sole judges of the facts and you will decide and determine what all the facts are in this 18 case. 19 As the judge, I'll give you instructions on the law to 2.0 apply, I'll decide questions of law, procedure, and evidence 2.1 that arise during the trial, and I'm responsible for 2.2 maintaining the decorum of the courtroom and overseeing the 23 flow of the evidence in an efficient manner. 2.4 At the end of the evidence, I'll give you detailed 25

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instructions about the law that you are to apply in deciding this case and, as I mentioned earlier, I will then give you a list of questions that you are to answer. This list of questions is called the verdict form. And your answers to those questions must be unanimous, and those answers, those unanimous answers to those questions will constitute the jury's verdict in this case.

Now, let me briefly tell you what this case is about. As you understand, this case is a patent infringement case where allegations of patent infringement have been made. This case involves a dispute regarding seven issued United States patents. I know you've all seen the patent video prepared by the Federal Judicial Center as we've talked about earlier. Patents are granted or denied by the United States Patent and Trademark Office, sometimes simply called the PTO for short. You'll probably hear it called the PTO during this trial. You may also hear it called simply the Patent Office.

The United States Patent and Trademark Office is an agency of the United States government. It is a part of the U.S. Department of Commerce. A valid issued United States patent gives the patent holder the right for up to 20 years from the date the patent application is filed to prevent others from making, using, offering to sell, or selling the patented invention within the United States, or from importing it into the United States without the patent holder's

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permission. A patent is a form of property called intellectual property and, like all forms of property, a patent may be bought or sold.

A violation of the patent holder's rights is called infringement, and a patent holder may try to enforce a patent against persons it believes to be infringers by filing a lawsuit in a United States District Court, and that's what we have in this case.

Now, the process of obtaining a patent is called patent prosecution. To obtain a patent, you first file an application with the U.S. Patent and Trademark Office, the PTO. The PTO, as I mentioned, is an agency of the United States government, and it employs trained examiners who review applications for patents. Once an application is filed, an examiner is assigned to review that application by the PTO.

The application includes within it something called a specification. The specification contains a written description of the claimed invention telling what it is, how it works, how to make it, and how to use it. The specification concludes or ends with one or more numbered sentences. These numbered sentences are called the patent claims. And when a patent is granted by the PTO, it's the claims at the end of the patent that define the boundaries of its protection and give notice to the public of those boundaries.

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Now, patent claims may exist in two different forms referred to as independent claims or as dependent claims. An independent patent claim does not refer to any other claim within the patent—it's independent. And it's not necessary to look at any other claim within the patent to understand what an independent claim covers.

On the other hand, a dependent patent claim refers to at least one other claim within the patent. A dependent claim includes each of the elements or limitations from that other claim or claims to which it refers or, as we sometimes say, from which it depends, as well as the additional elements or limitations set forth within the dependent claim itself.

As a result, to determine what a dependent claim covers, it's necessary to look at both the dependent claim and those other -- that other claim or claims to which it refers or from which it depends.

Now, the claims of the patents in this suit use the word 'comprising'. Comprising means including or containing.

A claim within a patent that includes the word 'comprising' is not limited to the methods or devices having only the elements that are recited in the claim, but covers methods or devices that it can include additional elements.

Let me give you an example. If you consider a claim that covers a table, and it recites it is a table comprising a table top, legs, and glue, that claim will cover any table as

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long as it contains a table top, legs, and glue, even if it contains other structures, such as leaves to expand the size of the table top or wheels to go on the ends of the legs.

Now, that's a simple example about the word 'comprising' and what it means. In other words, it can have other features in addition to those that are covered by the patent.

Now, after an applicant files an application with the PTO, an examiner is assigned to review the application and the examiner reviews what's been submitted to determine whether or not the claims presented are patentable—that is to say, appropriate for patent protection—and whether or not the specification adequately describes the invention that's claimed.

In examining the application, the examiner reviews certain other information about the state of the technology that existed at the time the patent application was filed. The PTO, acting through the examiner, searches for and reviews this type of information that was either publicly available or that might have been submitted by the applicant, and this type of information about the state of the technology that existed at the time the application was filed is called prior art.

Now, the examiner reviews this prior art to determine whether or not the invention claimed is truly an advance over the state of the art at the time. Prior art is defined by

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law, and I'll give you specific instructions later as to what constitutes prior art. However, in general, prior art includes information that demonstrates the state of the technology that existed before the claimed invention was made or before the application for a patent was filed with the PTO.

A patent also contains within it a list of certain prior art that the examiner has considered when the patent issues.

Usually on the front page, it lists the prior art that has been examined prior to the issuance of that patent. The items within this list of prior art are called the cited references.

Now, after the prior art search and an examination of the application, the examiner then informs the applicant in writing of what the examiner's found and whether the examiner considers any of the claims to be patentable, in which case they would be allowed. And this writing from the examiner to the applicant is called an office action.

Now, if the examiner rejects the claims, the applicant has an opportunity to respond to the examiner to try to persuade the examiner to allow the claims. The applicant also has an opportunity to change or amend the claims or to submit altogether new claims. And this process, these papers that are generated in the back and forth between the applicant and the examiner, these are called the prosecution history.

And this process between the examiner and the applicant may go back and forth for some time until the examiner is

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ultimately satisfied that the application meets the requirements for a patent, in which case the application issues as a United States patent, or, in the alternative, if the examiner ultimately concludes that the application should be rejected, then no patent is issued. Now, sometimes patents are issued after appeals within the Patent Office or to a court.

Now, to help you follow the evidence in this case, I'm going to give you a brief summary of the positions of the competing parties.

As you know, the party that brings or initiates a lawsuit is called the plaintiff. The Plaintiff in this case is TQ Delta, LLC, which you will hear referred to throughout the trial simply as either the Plaintiff or as TQ Delta.

And as you also know, the party against whom a lawsuit is brought or initiated is called the defendant. There are several Defendants in this case, and they are: CommScope Holding Company, Inc.; CommScope, Inc.; ARRIS U.S. Holdings, Inc.; ARRIS Solutions, Inc.; ARRIS Technology, Inc.; and ARRIS Enterprises, LLC, which you will hear referred to throughout the trial collectively as either the Defendants or simply as CommScope. If you hear the word 'CommScope', it will mean all of those entities as Defendants I've identified for you.

Now, as I told you during jury selection, this case involves allegations of patent infringement brought by TQ

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Delta against CommScope. And as I've already mentioned, there are seven United States patents at issue that have been asserted in this case. The asserted patents are United States Patent No. 7,570,686, United States Patent No. 7,453,881, United States Patent No. 8,276,048, United States Patent No. 8,090,008, United States Patent No. 8,462,835, United States Patent No. 8,468,411, and United States Patent No. 9,154,354. And as you may have heard in the video this morning, patents are commonly referred to by their last three digits. So in this case Patent No. 7,570,868 will be referred to during the trial simply as the '868 patent. You might hear someone called it the '686 [sic] Patent. And Patent No. 7,453,881 likewise will be referred to as the '881 or the '881 Patent. Patent No. 8,276,048 will be referred to as the '048 or '048 Patent. Patent No. 8,090,008 will be referred to as the '008 Patent. Patent No. 8,462,835 will be referred to as the '835 or the '835 Patent. And Patent No. 8,468,411 will be referred to as the '411 or the '411 Patent. And Patent No. 9,154,354 will be referred to as the '354 or the '354 Patent. These patents collectively will be referred to at various times as the patents-in-suit. You may also hear them referred to collectively as the asserted patents. And these asserted patents, ladies and gentlemen, generally relate to digital describer [sic] line, or DSL, technology. Now, the Plaintiff TQ Delta contends that the CommScope

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Defendants are infringing certain claims within these asserted patents by importing, making, leasing, or selling products within the United States that include their patented technology. TQ Delta alleges that CommScope's infringement is willful.

Tq Delta also alleges that CommScope has induced and continues to induce infringement by others. Finally, TQ Delta contends that it's entitled to money damages in the form of a reasonable royalty as a result of that infringement.

Now, the CommScope Defendants deny that they are infringing any of the claims in any of the asserted patents. They are denying that any infringement is, in fact, willful. They contend that the asserted claims of the patents-in-suit, at least four of them, have been anticipated or are obvious in light of the prior art and, thus, would be invalid.

The DSL technology in the asserted patents is governed by certain technical standards. A standard, ladies and gentlemen, is a uniform design for a product. Companies make devices in accordance with the same standards so that the devices made by different manufacturers can work together in the same ecosystem.

This is why a hair dryer made by one company plugs into a wall socket just like an electric razor made by another company plugs into the same wall socket or an electric knife in the kitchen plugs into the same wall socket. The plug is

designed and made in conformance with the standard so that everybody who makes products will have a plug that fits the same type of wall socket that is available throughout the United States.

I hope that example's helpful to you.

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These standards are set by what are known as standard setting organizations, which you might hear referred to for short as SSOs. In this case you're going to hear specifically about the International Telecommunication Union, otherwise known as the ITU. The ITU oversees the development of digital subscriber line, or DSL, technology. The ITU is a standard setting organization.

Now, if a patent implements technology that is covered by a standard and it would not be technically possible to implement the standard without infringing the patent, then the patent is called a standard essential patent, or an SEP. this means that if a company makes a device that implements a standard that's covered by a standard essential patent, then that company may need to obtain a license to use that technology.

The ITU has a policy called its common parent policy, or CPP -- excuse me, common patent policy, CPP. The common patent policy requires the owners of standard essential patents to license their patents on specific terms.

The ITU requires that owners of standard essential

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patents that relate to DSL technology grant licenses to others on terms that are fair, reasonable, and non-discriminatory.

This is known as FRAND, F-R-A-N-D, which again stands for fair, reasonable, and non-discriminatory.

If a company agrees to license its standard essential patents on FRAND terms, fair, reasonable, and non-discriminatory, then that commitment forms a contract between the company and the respective standard setting organizations. So, for example, if Company A owns a standard essential patent related to DSL technology and is prepared to grant licenses on FRAND terms, fair, reasonable, and non-discriminatory, then that promise forms a contract between Company A and the ITU, the standard setting organization.

Now, if Company B, a second company, implements a standard covered by the ITU, then Company B is considered a third-party beneficiary to the contract between Company A and the ITU, the standard setting organization. This means Company B can enforce the terms of the contract between the standard essential patent owner and the standard setting organization, including the right to obtain a patent from the standard essential patent owner on fair, reasonable, and non-discriminatory terms.

Now, in this case the CommScope Defendants contend that the Plaintiff, TQ Delta, has breached its obligation to offer the asserted patents for license on FRAND terms and

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conditions. TQ Delta denies that it has breached its obligation to offer the asserted patents for license on FRAND terms and conditions. And I'll give you further instructions on FRAND terms and conditions at the conclusion of the trial.

Now, I know, ladies and gentlemen, that there are a lot of new words and a lot of new concepts that have been thrown at you since you've arrived at the courthouse this morning. I'm going to define a lot of those terms and words for you as we go through these instructions. The attorneys in the case are going to help you with their opening statements. The witnesses are also going to help you, as they go through their testimony, to understand these words and these concepts. So please do not feel overwhelmed at this early stage. It will all come together as we go through this trial, I promise you.

Now, one of your jobs in this case is to decide whether or not the asserted claims of the asserted patents have been infringed. You'll also be asked to decide whether certain of the asserted claims are invalid. If you decide that any claim from the patents-in-suit has been infringed by the Defendant and is not invalid, then you'll need to decide whether or not that infringement has been willful. You will also need to decide what amount of money damages should be awarded to the Plaintiff as compensation for that infringement.

And, finally, you'll need to decide whether the Plaintiff, TQ Delta, has breached its contractual obligation

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to offer to the CommScope Defendants a license to the asserted

patents on fair, reasonable, and

non-discriminatory--FRAND--terms.

Now, my job in this case is to tell you what the law is, to handle rulings on evidence and procedure, and to oversee the trial, as well as to maintain the proper decorum of the courtroom.

In determining the law, ladies and gentlemen, it is specifically my job as the judge to determine the meaning of any of the language from the asserted claims coming from the patents-in-suit that needs to be interpreted, and I've already determined the meanings of certain language from the asserted claims coming from the patents-in-suit, and you must accept those meanings that I've arrived at that will be given to you, and you must apply my interpretations or constructions of that language throughout the trial with regard to any issues you are asked to deal with, including whether or not any claim has or has not been infringed and whether or not any claim is or is not invalid.

You're going to be given a document in a few minutes that sets forth those constructions or interpretations that I've already reached about certain language that was in dispute from within the asserted claims in this case.

Now, for any claim language that I have not provided you with a specific definition of, then you should apply the plain

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and ordinary meaning of that language. But if I have supplied you with a definition, sometimes called a construction, you are to apply my definition or construction to that language from the claims throughout this case.

However, my interpretation of any language from the claims should not be taken by you as an indication that I have any personal opinion regarding the issues of infringement, invalidity, or the other issues in this case. Those issues, ladies and gentlemen, are yours alone to decide.

Now, I'll provide you with more detailed instructions on the meaning of the claims before you retire to deliberate and reach your verdict. In deciding the issues that are before you, you are going to be asked to consider specific legal rules, and I'll give you an overview of those rules now, and then at the conclusion of the case, I'll give you more detailed instructions.

The first issue that you're asked to decide in this case is whether the CommScope Defendants have infringed any of the asserted claims from the patents-in-suit.

Infringement, ladies and gentlemen, is determined and assessed on a claim-by-claim basis. And TQ Delta, the Plaintiff, must show by a preponderance of the evidence that a claim has been infringed. Therefore, there can be infringement as to one claim but no infringement as to another claim.

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There are also a few different ways that a patent can be infringed, and I'll explain the requirements for these different types of infringement to you in detail at the conclusion of the case. But, in general, a defendant may infringe the asserted patents by making, using, selling, or offering for sale within the United States, or importing into the United States, a product meeting all the requirements of a claim from the asserted patents or a product that practices all of the required steps from a claim within the asserted patents. And I'll provide you with more detailed instructions on these requirements regarding infringement at the conclusion of the case.

Now, the second issue that you're going to be asked to decide is whether the asserted patents are invalid.

Invalidity is a defense to infringement. Therefore, even though the U.S. PTO, the United States Patent and Trademark Office, has allowed the asserted claims and issued the patents, and even though an issued United States patent is presumed under the law to be valid, you, the jury, must decide whether those claims are, in fact, invalid after hearing all of the evidence presented over the course of this trial.

You may find the patent claim to be invalid for a number of reasons, because it claims subject matter that is not new or is obvious. For a patent claim to be invalid because it is not new, the Defendants must show by clear and convincing

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evidence that all of the elements of that claim are sufficiently described within a single previously printed publication or patent. Again, we call these items prior art. If a claim is not new, ladies and gentlemen, it is said to be anticipated by the prior art.

For a patent claim to be invalid because it is obvious, the Defendants must show, again by clear and convincing evidence, that the claim would have been obvious to a person of ordinary skill in the field of the technology of the patent at the relevant time. You'll need to consider a number of questions in deciding whether the invention claimed in the asserted patents is obvious, and I'll provide you with more detailed instructions on these issues at the conclusion of the trial.

If you decide that any claim from the patents-in-suit has been infringed and that claim is not invalid, then you'll need to decide whether the infringement that the Defendants have committed is, in fact, willful. If you decide that any of the claims from the patents-in-suit have been infringed and are not invalid, you'll also then need to decide what amount of money damages should be awarded to the Plaintiff TQ Delta to compensate it for that infringement.

A damage award, ladies and gentlemen, in a patent case must be adequate to compensate the patent holder for the infringement, and in no event may the damage award be less

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than what the patent holder would have received if they had been paid a reasonable royalty for the use of its patented technology. However, the damages that you award, if any, are meant to compensate the patent holder, and they are not meant to punish the Defendants, and you may not include in any damages award an additional amount as a fine or a penalty or whatever is above what is necessary to fully compensate the patent holder for the infringement.

Also, patent damages cannot be speculative, and TQ Delta, the Plaintiff, must prove the amount of its damages for the alleged infringement by a preponderance of the evidence. I'll give you more detailed instructions on the calculation of damages for the alleged infringement of the patents-in-suit at the conclusion of the trial, including giving you specific instructions with regard to the calculation of a reasonable royalty.

The third issue that you're going to be asked to decide is whether TQ Delta has breached its contractual obligation to the ITU by failing to offer to CommScope a license to the asserted patents on FRAND terms. If you decide that TQ Delta has breached a contractual obligation, then you will need to decide what amount of money should be awarded to CommScope as compensation for that breach.

In deciding whether or not a party has breached a contractual obligation, there are four questions that you'll

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need to be -- that you will be called upon to answer at the end of the case. The first question is whether TQ Delta had a contractual obligation. The second is whether TQ Delta violated any of these contractual obligations. The third is if TQ Delta violated a contractual obligation, whether there is a defense excusing that violation. And, fourth, if any of the obligations were violated and there are no defenses, what are the amount of damages, if any, for that breach of contract, that violation.

Now, CommScope, the Defendants, have the burden of proving its alleged breach of contract by a preponderance of the evidence, and as I told you during jury selection, this means proof that establishes that CommScope's claims are more likely true than not true.

Now, if you find that TQ Delta violated any of its contractual obligations, you will be asked to determine what damages, if any, should be awarded for those violations. This includes the option of CommScope seeking nominal damages. The fact that a party may choose to seek nominal damages should have no impact on your analysis of the party's breach of contract claims, and I'll give you more detailed instructions on the calculation of damages at the conclusion of the trial. However, ladies and gentlemen, the fact that I'm instructing you on damages does not mean that TQ Delta or CommScope is or is not entitled to recover damages.

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Now, you're going to be hearing from a number of witnesses over the course of this trial, and I want you to keep an open mind while you're listening to the evidence and not decide any of the facts until you've heard all the evidence. This is important. While the witnesses are testifying, remember you, the jury, will have to decide the degree of credibility and believability to allocate to the witnesses and to the evidence that they present.

So while the witnesses are testifying from the witness stand, you should be asking yourselves things like this: Does this witness impress you as being truthful? Did he or she have a reason not tell the truth? Does he or she have any personal interest in the outcome of the case? Does the witness seem to have a good memory? Did he or she have an opportunity and ability to observe accurately the things that they've testified about? Did the witness appear to understand the questions clearly and answer them directly? And, of course, does this witness' testimony differ from the testimony of any other witness? And if it does differ, how does it differ? These are some of the kinds of things that you should be thinking about and listening for while each witness is testifying.

I also want to talk to you briefly, ladies and gentlemen, about expert witnesses. When knowledge of a technical subject may be helpful to the jury, a person who has special training

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and experience in that particular technical field, we call them an expert witness, that kind of a witness is permitted to testify to you, the jury, about his or her opinions on those technical matters.

However, you're not required to accept an expert witness' opinions or any witness' opinions for that matter. It's up to you to decide whether you believe what an expert witness or any witness says and whether you believe it's correct or incorrect, whether you want to believe what they say or not believe what they say, and how much weight, if any, you want to give to the testimony they offer.

Now, I anticipate that there are going to be expert witnesses testifying in support of both sides in this case. But when they do, it's going to be up to you to listen to their qualifications. And when they give an opinion and explain the basis for that opinion, you will have to evaluate what they say, whether you believe it, and what degree, if any, that you want to give that opinion weight.

Remember, ladies and gentlemen, judging and evaluating the credibility and the believability of each and every witness is an important part of your job as jurors.

Now, during the trial it's possible that there will be testimony from one or more witnesses that are going to be presented to you through what's called a deposition. In trials, it's difficult to get every witness here in person at

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the time it's needed so that they can testify from the witness stand.

So before the trials begin, before a trial begins, the lawyers from both sides take the depositions of the witnesses. In a deposition, the witness is present, they're sworn and placed under oath, a court reporter is present just like in open court today. The lawyers for the competing parties are present and that witness, after being placed under oath, is asked questions by the lawyers and gives answers or responses. Those answers — those questions and the answers or responses are taken down. Often they are recorded by video recording equipment.

Now, it's important for you to understand that during the course of this trial if witnesses are presented to you by deposition rather than appearing in person, that you will be seeing clips of those depositions that are put together.

Let me explain it this way. When a witness is deposed, their deposition is taken. It's usually allowed that the deposition can go as long as seven hours. So seven hours of questions and answers get asked of this particular witness. It may be, when it comes to the time to present their testimony at trial, that the lawyers who are offering that testimony will decide that only 15 minutes of that seven hours of testimony is relevant and appropriate to offer to the jury.

You do not have to listen to seven hours of testimony to

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get the 15 minutes that are relevant. Those 15 minutes can be cut out and spliced together, it may be two minutes here, three minutes there, and six minutes here. It can all be spliced and put together and presented to you as an edited video or deposition. And that way you and I don't have to listen to seven hours to get 15 minutes' worth of testimony.

But as a part of that process, unavoidably, you are going to see little clicks or gaps or things that indicate that splicing and editing has taken place. You may hear different voices from different lawyers asking questions at different times. There are going to be little differences. I won't call them irregularities. I will call them differences that you are going to hear. That's because that seven hours has been cut down to, in this example, 15 minutes.

When that happens, don't get focused on the little glitches or clicks or different voices or the differences.

Listen to the questions, listen to the answers, focus on what's asked and what's said, even though these other things may be present. And by doing that, we can all avoid having seven hours of presented testimony when only 15 or 20 minutes of it may be important. Keep that in mind as we have deposition witnesses later in the case.

You do need to understand, and I am telling you, that deposition testimony is just as important and you should pay just as close attention to it as you would a witness who

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appears live and testifies from the witness stand. And to the same extent possible, you should judge the testimony of a witness presented by deposition as to their believability and credibility just as you would judge any other witness, including those that will testify live from the witness stand.

Also, ladies and gentlemen, during the course of the trial you're going to be shown various documents that the Court has admitted as exhibits in this case. Some of those documents may have portions of them that have been redacted or, as we might otherwise say, blacked out. That's because there may be information in those documents that is not relevant to what's going on in this case and you do not need to see it or focus on it. Some of it may be confidential business information that doesn't relate to any of the issues that are involved in this trial.

There are reasons why those blacked out portions or redactions are in there. When you are shown documents in this trial that may have redactions in them, just like the glitches in the video depositions, don't focus on the part that's blacked out. Don't try to guess what was said that's been redacted. Focus on what's there and visible and readable. Focus on the part that isn't redacted, if there are redactions in the document.

Any of the redactions that are in documents you're going to be shown are because I ordered them, so I've already

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determined that's not appropriate or necessary for you to think about. Don't focus on what's been redacted; focus on what has not been redacted in the documents and the exhibits that you might be shown during the course of the trial.

Now, during the course of the trial, all this being said, it's still possible that at various times the lawyers are going to raise objections. And it's the duty of an attorney to object when the other side offers testimony or other evidence that the lawyer believes is not proper under the rules of the Court. Upon allowing the testimony or other evidence to be introduced over the objection of an attorney, the Court does not, unless expressly stated, indicate by doing that that I have any opinion as to the weight or effect of that evidence. Again, that decision as to the weight or effect of the evidence is up to you, the jury.

You are the sole judges of the credibility and believability of each and every one of the witnesses and what weight and effect, if any, to give to all the evidence that will be presented during this trial.

Unequivocally, ladies and gentlemen, I want to compliment the lawyers in the courtroom in your presence because, prior to today, through pretrial hearings and procedures that you were not present for, the Court has gone through many issues with the attorneys to try and streamline this trial.

One of the issues we've gone through is the issue of

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which exhibits are properly admissible into evidence. And there have been many, many, many documents presented during those pretrial hearings, both from the Plaintiff that the Defendant objected to and from the Defendant that the Plaintiff objected to, that the Court has already considered. And I've heard the arguments for and against the admission of those documents. Some of them I've ruled can be admitted. Some of them I've ruled can't be admitted.

The bottom line is the proper documents that can be admitted, that I've already ruled on those disputes, have already taken place. So you won't have to sit here during that trial and listen to those objections and responses and back and forth between the lawyers. That's already been done. And whether you understand it or not, that has saved you many hours of sitting those chairs. I had the privilege of sitting up here many hours by going through that process.

But that has already been done, and that means if a document is presented to you during this trial as an exhibit, it means I've already determined it's admissible. So none of that preliminary process has to be presented during the trial. The lawyers can simply present it, put it in a proper context with a witness, and let it be seen by you the members of the jury. And that has saved you a lot of time.

However, it's still possible that objections are going to arise during the trial. If I should sustain an objection to a

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question addressed to a witness, then you, the jury, must disregard the question entirely, you may draw no inference from its wording, and you may not speculate about what the witness would have said if I had allowed them to answer the question.

On the other hand, if I overrule on objection to a question addressed to the witness, then you should consider the question and the answer just as if no objection had been made.

You should know, and I touched on this earlier during jury selection, you should know that the law of the United States permits a United States district judge to comment to the jury on the evidence, but such comments from the judge to the jury on the evidence are simply an expression of the judge's personal opinion and the jury is free to disregard those comments in their entirety because, as I've told you, you, the jury, are the sole judges of the facts in this case. You, the jury, are the sole judges of the credibility and believability of each and every witness. And you, the jury, are the sole judges as to how much weight, if any, you want to give to all the evidence that will be presented during this trial.

That being the case, even though the law permits me to comment to you on my views as to the evidence, I'm not going to do that. I'm going to try very hard not to comment on the

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evidence so that you have no idea what I think about the evidence, because determining the facts from the evidence is your job, it's not my job in this case. So you should not take anything you hear or see or think you hear or see as coming from me as a factor to consider in ultimately deciding what the facts are in this case.

Now, our court reporter, Mr. McRoberts, who's seated in front of me, he's going to take down everything that's said during this trial, and that recording, that transcription of everything that's asked and everything that's answered, everything that's said, that will be reduced to writing at some future date. It's not going to be printed and available as a written transcription for you-all to consider and review when the evidence is complete and you're in the jury room deliberating on your verdict.

In other words, ladies and gentlemen, you won't have the written transcription of the questions and the answers. You will have to rely on your memory of the questions and the answers and the evidence that's been presented during this trial.

The transcription prepared by the court reporter is prepared so that if there is an appeal of this case to a higher court, that will then be available for that appellate court to use, but it's not going to be available to you, the jury, which means, again, you are going to have to rely on

your memory of the evidence throughout the trial.

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Now, in a few moments you're each going to be given a juror notebook and in these notebooks, as I'll mention in a few minutes, there are places for you to take notes if you wish to. It's up to each of you to decide whether you're going to take notes and, if you are, how extensive those notes should be. But remember any notes that you take over the course of the trial are aids to your memory only. They're for your own personal use. You still have to rely on your memory of the evidence, which is why you need to pay close attention to the testimony of each and every witness.

And a juror should not abandon his or her recollection of the evidence, their memory of the evidence, just because some other juror's notes might indicate something different. Your notes, if you take them, are to refresh your memory and recollection of the evidence, and that's the only reason you should take them.

Now, I'm going to ask at this point the Court Security Officer to pass out these juror notebooks to each member of the jury.

(Pause in proceedings.)

THE COURT: Thank you, Mr. Latham.

In these notebooks, ladies and gentlemen, you're going to see that you have a copy of each of the asserted patents in this case.

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You're also going to find a section in those notebooks where language from the claims that's been raised by the parties has been construed and interpreted by the Court. On one side, you'll see the actual language from the claims that's been questioned, and on the other side you'll see the constructions or the definitions that the Court has reached. Again, you are required to apply my definitions regarding that language to the issues that you're asked to decide in this case.

Behind that section in those notebooks about the language of the claims that the Court has interpreted or construed, you are going to find a section of witness pages. It should have tabs on there for each witness who might testify during the trial. That's to help you find the appropriate tab for the witness easily when they're called to testify. And behind each of those tabs, you should have a sheet with a head-and-shoulders photograph of the witness and their name.

Also, a good portion of that page will be ruled lines if you want to take notes about that witness' testimony on that. If you need additional space to take notes and you opt to take notes, you're also going to find in the back of those notebooks a new legal pad that you can use to take notes on throughout the trial. Again, it's up to each of you whether you want to take notes and how extensive or otherwise you want those notes to be.

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And I believe you'll find a pen somewhere in the front pocket in case you don't have one to take notes with, again if that's something you determine you want to do.

Now, these notebooks, ladies and gentlemen, should be in your possession pretty much at all times. When you leave each day, I'm going to ask you to take them to the jury room and leave them on the table in the jury room so they'll be there the next morning. When we recess during the trial and take a break, unless I tell you otherwise, you should take the notebooks with you to the jury room and not leave them here in the courtroom.

There may be, however, periods where we're going to take a short recess, you're only going to be out of the jury box for a short period of time, that I may say, ladies and gentlemen, you may simply leave your notebooks closed and in your chairs. And if I tell you that, then you don't need to take them back to the jury room; you can just close them and leave them in your chairs. But unless I instruct you otherwise, they need to be in your possession or they need to be secure in the jury room. They don't need to be left around where anybody who shouldn't would have access to them.

Now, in a moment we're going hear opening statements from the lawyers in the case. These opening statements, ladies and gentlemen, I want to explain to you, these are supposed to be a roadmap of what each side expects their evidence will show

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And you should remember that what the lawyers tell you in this case is not evidence. It's what they believe the evidence will show.

And, again, it's up to you to watch and listen and observe throughout the trial and see if the evidence does, in fact, show you what they believe and tell you they hope it will show you. What the lawyers tell you is their impression of the evidence, and they have a duty to try and point out what they believe the evidence is. But, remember, what the lawyers tell you is not evidence.

Now, let me give you a brief structural overview of how the case will proceed.

After I finish these instructions, the Plaintiff will present their opening statement. They'll lay out for you verbally what they believe the evidence is going to show over the course of the trial. Then the Defendants will present their opening statement and they will lay out for you verbally what they believe the evidence is going to show you over the course of the trial.

Then we will begin with the actual evidence. We will start with the Plaintiff first, and the Plaintiff will present its witnesses. And the witnesses presented by the evidence [sic] is called the Plaintiff's case in chief. The Plaintiff will call its witnesses, the witnesses will be sworn and testify from the witness stand.

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After the Plaintiff is through directly examining the witnesses, then the Defendant has an opportunity to cross-examine the witnesses. After the cross-examination and the back and forth when all the questions have been asked of that witness, they will step down and the next Plaintiff's witness will take the witness stand and we will go through all the Plaintiff's witnesses.

When the Plaintiff has put on all their witnesses and they've been examined, either testifying live or by deposition, as I've already talked to you about, then the Plaintiff will rest the Plaintiff's case in chief.

Then the Defendant will present its evidence in the same They'll call their witnesses, they'll be sworn, they'll be examined and cross-examined, and the Defendant will call all their witnesses. When the Defendant has presented all of its witnesses, the Defendant will rest what's called the Defendants' case in chief.

At that point the Plaintiff has the option of calling what are called rebuttal witnesses to rebut what the Defendants have shown. They may call rebuttal witnesses, they may not call rebuttal witnesses. It's up to them. that option. If they do, then they'll present their rebuttal witnesses, and when they're finished, that will end the Plaintiff's rebuttal case.

When all the witnesses are through, if there's a rebuttal

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case from the Plaintiff, then at the end of that, or if there is no rebuttal case from the Plaintiff, at the end of the Defendants' case in chief, that will be when all the evidence has been presented. And when all the evidence has been presented to you, I will give you my final instructions on the law, and then the parties will present their closing arguments presented by their attorneys.

And when you've heard my final instructions and when the attorneys for the parties have presented their closing arguments, then I will instruct you to retire to the jury room and to deliberate on your verdict. And I will send back with you at that time a written document that sets out the various questions that you're to ask [sic], which will, as I've told you, your answers which need to be unanimous, those answers to those questions will constitute the jury's verdict in this case. And that's structurally how the trial will go on.

Now, at this point we're ready to hear opening statements from the attorneys. But before we do that, we've been here awhile. I would like each of you to have the opportunity, if you want to, to just close your notebooks and just stand up where you are and stretch a little bit. If you have a bottle of water, get a drink of water. I don't want you to leave the jury box, but take a moment to stretch and kind of refresh. And then once you've done that, we'll then proceed with the opening statements.

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And you're each welcome to have a bottle of water with
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     you in the jury box throughout the trial. It's available to
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     you in the jury room. If anybody needs one and doesn't have
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     one, we can bring one to you.
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                         (Pause in proceedings.)
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               THE COURT: All right. I hope that's helpful.
          All right. With these instructions, ladies and
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     gentlemen, we'll proceed to hear opening statements from the
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     parties.
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          The Plaintiff may present its opening statement to the
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     jury.
               MR. DAVIS:
                           Thank you, Your Honor.
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               THE COURT:
                           Would you like a warning on your time,
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     Mr. Davis?
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               MR. DAVIS: Yes, Your Honor. May I have 15 minutes
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     and five minutes?
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               THE COURT: I'll warn you when you have used 15
     minutes and when you have -- when you have 15 minutes
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     remaining and when you have five minutes remaining.
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               MR. DAVIS: Thank you, Your Honor.
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                           You may proceed with opening statement
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               THE COURT:
     when you're ready.
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               MR. DAVIS: May it please the Court.
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          Good afternoon, members of the jury. Welcome back from
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     lunch. I hope you had a good lunch.
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And as I told you this morning, my name is Bo Davis, and I'm here representing and speaking on behalf of TQ Delta this afternoon.

The reason we're here is because for the last 10 years the Defendant in this case, CommScope, has been infringing seven United States patents issued to a man named Marcos Tzannes and now owned by a company called TQ Delta. These are seven of almost 200 patents that TQ Delta and Mr. Tzannes have worked on and invented, and these seven patents represent technology related to DSL high speed internet.

CommScope has been aware of these patents since at least 2013 when we sent them a letter, when we reached out to them and we told them that we believed their products that comply with standards were infringing TQ Delta's standard essential patents.

Now, we believe that the evidence will show that, as we sit here today, CommScope continues to infringe these patents and it will continue to do so in the future until this dispute is resolved. Not only have they infringed the patents, but they've done it willfully and they have refused to compensate TQ Delta for the inventive work that it has done and that Mr. Tzannes has done. And this is what brings us to the courthouse today. This is how our system works.

The right to trial by jury is protected by the Seventh Amendment to the Constitution. It's in the Bill of Rights.

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And when we think of that right, we often think of the right of the parties to have a right to have a jury decide their disputes. But what I'd like you to think about is that it's also your right. It's your right to decide the type of conduct that we're going accept in this community. So it's not just TQ Delta's right or CommScope's right, but it's your right.

And I think that's really what the founders intended.

They really intended that members of the community would be a part of the process because the founders trusted that you and your collective wisdom were the best ones to judge disputes between members of the community.

Now, I recognize that you being here is a sacrifice. I really do. I know that there are things you'd rather be doing. I know that this takes away from your life. But I hope that you will look at this as an opportunity to participate in what has made this country great, at least in part. And so I do want to say that and thank you for your sacrifice. We respect your time, and we will be as efficient with that as possible.

Not only did Congress -- I'm sorry, the founding fathers, when they were framing the Constitution and laying out the foundation of the rights that are going to -- that will be a part of our country, provide for a right to jury trial, but they believed that the protection for innovation was so

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fundamental and so important that they also put that in the Constitution. Article I, Section 8, of the Constitution says, "To promote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries."

That's what we have here in these seven patents. We have discoveries by a man named Mr. Tzannes.

Now, as you heard in the patent video this morning, once a patent is issued, the patent holder is entitled to exclude others from using the patent. If someone is using your patent, if they come on your property, that is called patent infringement. Just like if you owned a piece of land and you had timber on that land and someone came on your land and cut down your trees, that would be something that is not right. That would be something that's not permitted under the law in the same way patent infringement is not permitted under the law because the inventions are protected by patents.

And there's a special kind of infringement in this case. It's called willful infringement. When someone does something knowingly with callous disregard for others, with callous disregard for a high probability that they're going to be infringing a patent, it's called willful infringement. And that in a nutshell is why we're here today. CommScope for 10 years has been using patents owned by TQ Delta and inventions

created by Mr. Tzannes.

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Now, I said a patent is like property, and I want to tell you a little bit about why that is. You each have copies of the patents in your jury notebooks. I'm showing you a copy of the '411 Patent. Feel free to look at it if you'd like, but you don't have to.

I just want to orient you to the parts of the patent because, on the first page, you'll see information like the name of the inventor and the last three numbers, which are how we'll refer to the patent at times. You'll see some dates that talk about when the invention was first disclosed to the Patent Office. You'll see figures. And then as you flip through it, you'll see a description of the invention where the patent owner has taught the world how to make the invention.

At the end, you'll see a list of numbered paragraphs.

These numbered paragraphs are the claims, and the claims, like a deed to property, are what define the metes and bounds of the invention. And if someone is using your patent, each of these claims will be found in their product.

The patents at issue in this case, there are seven of them. And I'm not going to read them all to you. You're going to hear about them. You're going to hear them referred to throughout the case because it's our burden to prove infringement, and we welcome that burden. We're very happy to

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present our infringement case to you, because we think there is evidence that will show you well beyond the preponderance of the evidence standard that we have to use that CommScope is infringing these patents.

Now, because there are so many patents in this case, we also refer to these patents for shorthand and I'm listing the these shorthand names that you may hear throughout this -- the presentation of evidence so that we're not constantly having to refer to a bunch of numbers.

I mentioned during jury selection what the products that are at issue in this case are about. It's DSL modems. These are the modems that sit in your house that connect to telephone networks and that allow you to receive high speed internet data to your home.

CommScope designs and makes DSL modems. Their largest customer is AT&T. Ninety percent of the modems they sell, they sell to AT&T who then provides them to U.S. customers when you subscribe to DSL service. Every time CommScope sells a DSL modem to AT&T, they commit an act of infringement. Every time CommScope supports AT&T in the use of those DSL modems through firmware upgrades, through technical support, they infringe the patents related -- the seven patents at issue in this case.

I'd like to spend a minute to tell you a little bit about -- a little bit more about DSL technology.

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Some of you in this room may have DSL technology, and I didn't realize this before I met Mr. Tzannes.

And, Mr. Tzannes, would you please stand up?

This is Mr. Tzannes. He's the inventor on six of the seven patents at issue in this case. And for the other patent, he was head of the group at a company called Aware that developed the technology that became that seventh patent.

And I didn't know this before I met Mr. Tzannes, but he explained to me how DSL technology works. And I was surprised to learn that, you know, the high speed internet data that travels to your home is going over telephone wires that have been hanging in the air sometimes for as long as a hundred years. These telephone wires were installed 50, 60, 70, 100 years ago, and they were not designed for high speed internet traffic. They were designed for simple landline telephone calls. And because of that, putting high speed data onto this network creates a lot of problems.

But why would you want to do that? Why would you want to put high speed internet on the phone lines to begin with?

Well, I don't -- some of you like me remember in the late '90s, there was this big revolution that happened.

Right? The internet revolution. All of a sudden, we could get internet to our homes through, if you remember in the late '80s, early '90s, dial-up service. I don't know if you remember dial-up service, America Online.

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Then internet grew, we needed faster internet. And when we needed faster internet, many companies were competing to get into the market to provide you and me DSL service.

AT&T was a phone company, but they wanted to become a high speed data company. So how could they do that? Well, they didn't have a high speed network. What they had were old phone lines. So if they wanted to become an internet company, they could either lay new cable all over the country or they could use their old telephone lines.

Around this time in the late '90s, DSL technology was emerging and DSL technology provided a way for AT&T to become a high speed data network company without laying new cables; using their existing phone lines, the phone lines that they had probably spent a hundred billion dollars installing and maintaining over the years.

So what option do you think AT&T went with? Did they go build a new network or did they use DSL technology over their existing lines? For the last 20 years, they have offered DSL technology, and that market has enabled CommScope to sell over 35 million DSL modems to consumer -- to AT&T which then go into consumers' houses.

Now, DSL is a very complicated technology. Even though it's running over old telephone lines, the technology that enables it is complicated, and you're going to hear that very quickly. Mr. Tzannes is going to be our first witness. He's

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going to take the stand, and he's going to explain to you the problems of DSL and how he solved them. But the reason it's a problem is for something called noise. When you put high speed signals on DSL lines, they're very susceptible to It comes from noise. And the noise comes from everything. your microwave, your air conditioner, to the weather, the lightning storm we had last night, to radio towers. interferes with the signal and it creates a bunch of problems. And the patents at issue in this case address the problems associated with noise, problems that, if we couldn't fix, you wouldn't have DSL.

Now, you've heard these are standard essential patents. That was a new term to me. I wasn't sure exactly what that meant. But the analogy that's been used by the Court so far is like a wall plug. They are all designed the same so all plugs can fit in them. For DSL, it is a similar concept. It's a similar concept in that you have to design the products the same way so that they all work together. And in designing them the same way, in setting that standard, you want to make sure that you have the best solutions to the problems you face in the industry.

So when your invention gets presented to the standards body and the body adopts the invention into the standard, your patents become what are called standard essential. This is the ITU, the International Telecommunications Union.

made up of companies and representatives from countries from
all over the world. It's an international organization. They
meet together on a regular basis to solve problems associated
with DSL. And the ITU adopts standards that set out the way
that the products should be made.

And all of the inventions in this case, the seven patents
that are at issue in this case, are what are called standard

that are at issue in this case, are what are called standard compliant. They've been contributed to the ITU. Five of the seven patents are what are called standard essential. And what does that mean for purposes of this case? It means that if you sell a product that is incorporated into the standard, then you're necessarily infringing the patent.

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And CommScope sells products that comply with the standards. The three standards at issue in this case are VDSL2, G.INP and G.bond.

THE COURT: You've used 15 minutes, counsel.

MR. DAVIS: Thank you, Your Honor.

CommScope admits that their products comply with the standards. Here is a data sheet from their own product literature where they say VDSL2 support, support for bonded profiles, and G.INP, the three standards at issue in this case.

I'd like to give you now a quick overview of some of the key events in the case and a time line of those events.

The seven patents at issue in this case were all disclosed to

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the Patent Office from the years 1999 to 2006 through what's called a provisional application. And what does that mean?

That means you filed an application where you've told the Patent Office that you have inventions that will then later become patents.

The standards at issue in this case were adopted and finalized and promulgated by the ITU in 2005, 2006, and 2010. You're going to hear testimony from Mr. Tzannes that he's been involved with the ITU for over 30 years, that he's attended these meetings, he's led groups, he's received awards, and his involvement in the standards body is extraordinary. He's essentially dedicated his life to developing DSL technology. It's just what he's done with his life, and he's very proud of that work. He's proud of the work he's done there.

Each of the inventions, not only did he attend the meetings, but he taught others in the industry about his inventions. He taught them, he showed them. You're going to see images of his testimony -- I'm sorry, images from him actually at the white board teaching other members of the community how to solve problems. And what you're going to hear is that not only were those problems presented to the ITU, but every member of the group adopted -- agreed to adopt the inventions into the standards.

Now, TQ Delta. You're going to hear from Ms. Abha
Divine. She's the managing director of TQ Delta. She used to

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TQ Delta's business is managing and continuing work at AT&T. the development of the Tzannes patents. TQ Delta acquired the patents from a company called Aware in 2012.

In 2013, TQ Delta did what it -- one of the things that are a central part of its business which is to approach people, companies like CommScope, who are using patents that they don't have permission to use, and try to negotiate a license.

In 2015 TQ Delta sent a letter to CommScope, and in this letter they asked to initiate licensing discussions. said, we would like to sit down and talk, we'd like to talk about your products, we'd like to tell you about our technology. They attached a PowerPoint presentation that provides an overview of the patents, the standards, and how their products infringe.

Now, what happened after this? You're going to hear that from this point forward, CommScope began essentially a calculated plan to delay as long as possible the resolution of this issue. They decided to ignore, they decided to withhold, and they did not engage in good faith negotiations with TQ Delta to resolve this issue. You going to hear about that later. You're going to hear all about CommScope's conduct and how they have essentially said, we don't want a license because we don't like your standard royalty rates, we don't like your standard licensing terms.

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But others in the market have accepted TQ Delta's licensing terms: In 2017, a company called Zone. '18, a company called Fujitsu. Siemens, Zyxel, Nokia, we're going to walk through each of these licenses. We're going to show you that TQ Delta's royalty rates were not only fair and reasonable, but as part of their obligation to the ITU for owning standard essential patents, they couldn't deviate from them because, remember, it works both ways. If you want to offer licenses on reasonable and non-discriminatory terms, CommScope doesn't get to dictate what those terms are, especially when other companies have already taken licenses. You have to be fair and consistent to those companies as well.

Now, our burden of proof on infringement in this case is the preponderance of the evidence, and you heard His Honor describe that -- that burden and what it means. Well, what it means essentially is if in the scales of justice, the scales tip ever so slightly in our favor, even just a feather, we've met our burden.

And we welcome the burden for infringement. We believe we have more than sufficient evidence. You're going to hear evidence from four experts. I'm not going to introduce them all right now, but these are four experts that have PhDs and that understand this technology inside and out. They're going to walk you through the claims. They're going to show you where the claims line up with the standards and, therefore,

become standard essential patents.

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They're going to show you in CommScope's own product documents. They're going to look at the source code. Source code is not something that anybody has access to, but through this litigation we've been able to get access to that source code. And in the code, it shows where CommScope is infringing the patents.

And, finally, you're going to hear something called the Uber matrix, which I thought was an interesting name, but this is the requirements document that AT&T sends CommScope and says, you need to have these features in your product. And when your largest customer tells you that they want something in your product, you bet you're going to put it in there. And we're going to show you for each of the features and functionalities that are at issue in this case, CommScope said, yes, we'll put it in there. It's compliant.

But, finally, we're also going to provide you with product testing. We set up a testing environment where we could actually test these DSL modems and watch the data that's being sent back and forth. And we captured the data, and the test results from that data are going to show that, yes, there is more than enough evidence, more than enough evidence, that CommScope infringes.

CommScope has a series of reasons why we're here today. One of those reasons they say is, we don't infringe.

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say, we just don't do it. Even though our products are compliant, even though, you know, we go to the ITU and we were in the meetings, and we know Mr. Tzannes and those kind of things, we just don't think we do it.

And I'm going to submit to you that, as you hear the evidence, I'd like you to hear what they're saying and what they're not saying, because CommScope didn't do any testing. It's their products. They know how they work better than anyone. They could have tested them, but they didn't. You're not going to hear any testing evidence from CommScope. you're going to hear is criticism of the testing we did. Okay. Well, if we got our testing wrong, where's the right testing?

The next thing you're going to hear from CommScope is, okay, well, maybe we did infringe, maybe we do, but the patents are just bad, they're invalid, the Patent Office got it wrong.

I want to submit to you that this red ribbon on the front of these patents actually means something. It means something that when the Patent Office and the folks there who are trained specialists in their field to do this job of analyzing patents and deciding whether or not to grant patents.

They say they got it wrong. They say they got it wrong. They say they never should have issued the patents. because of that, the burden of proof is clear and convincing

And then on the right is a patent statement where you

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tell the ITU, I have patents that are covered -- I have patents that now cover the standard that you've adopted. Those were filled out, those were submitted for all of them. These are all public documents. So even if CommScope says, well, you know, we never heard about you, they were in the meetings, they were on notice through the -- through the contributions and the statements.

But not only that, we actually reached out to them as I showed you earlier. We sent them a letter in 2013. And over the next 10 years, there were dozens of emails, multiple phone calls, at least two in-person meetings where we sat down and we showed them, Here is how you infringe. We sent them a packet of material this long. It was so long you couldn't even send it in paper. We had to send them a link to download. And it had claim charts. And it walked through and it said, here's the claim, here's the evidence, here's the claim, here's the evidence. We told them how they infringed.

How did they respond? We don't do it. Did they ever write back and tell us, We don't -- let me show you how we don't infringe? No. They just ignored it. They just ignored it.

And it wasn't until -- oh, and by the way, there's this issue of the breach of contract. They say we broke our promises. Those licenses, all these licenses, they have TQ Delta's standard royalty rates. So their -- their whole claim

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that we broke a promise and we didn't offer them the same discounts that someone else got, what the evidence you're going to hear is that all of these licenses have TQ Delta's standard rates and we offered them those rates from day one. Okay?

We offered them the rates multiple times over the years. They wouldn't take it. And they never once came back to us and said, We don't think these rates are fair because someone else has gotten different rates. They never said that. just said, Here's some rates, we like these rates, they're 90 percent discounted, we'd like that.

Well, of course they would. Who wouldn't like a 90 percent discount? Everybody would. But TQ Delta didn't just break its promises. The reason it couldn't agree to a 90 percent discount is because, if it did, it would be discriminating against those who paid the standard rates. can't do that. So not only did TQ Delta uphold its promise, it's CommScope who was trying to get us to break our promise, our promise not only to the ITU but to the other licensees.

So I wanted to just address that and get that out of the way because I just -- I just -- it's -- the licenses will speak for themselves when you hear them.

Now, finally, when you get to damages in this case, we have an expert, Dr. John Putnam. He's a Ph.D. from Yale. He's going to come, and he's done a proper damages analysis.

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jury.

And I want to tell you real quickly, damages law looks to what a reasonable royalty -- it says, in no event less than a reasonable royalty for the use made of the invention by the infringer. So where do you look to understand damages? You look to the amount of the use. You look to the Defendants' use. if you use less, then you pay less. If you use more, you pay more. And in this case CommScope has used these inventions 36,079,576 times. And when you've sold that many units, the royalty rate and the damages in this case is \$89 million. And at the end of all this evidence, that is what we're going to ask you to award and not a penny less because when you hold out for 10 years and when you say, we don't infringe standard essential patents that we know that Mr. Tzannes was in the meetings, and when you say we don't think the patents are valid, and even if the patents are valid, we shouldn't have to pay very much, they should. They should have to pay every penny of what they've used. Members of the jury, thank you. We look forward to presenting our case to you. Thank you, Your Honor. THE COURT: All right, counsel. Defendants may now present their opening statement to the

Mr. Dacus, would you like a warning on your time?

If you'd let me know when I have five 1 MR. DACUS: minutes left, please, Your Honor? 2 I will certainly do that. THE COURT: 3 MR. DACUS: Thank you. 4 THE COURT: You may proceed. 5 6 MR. DACUS: Thank you, Your Honor. Good afternoon. Let me start this afternoon where I 7 started this morning, and that is to say, on behalf of the men 8 and women who work at CommScope, a very sincere thanks to you. 9 I said to you this morning that we would not be here if this 10 case was not important, and that's the truth. We would not 11 This case is very important to CommScope, and at least 12 from CommScope's perspective, it really has broader 13 importance. 14 You saw just a minute ago TQ Delta's lawyer pull up the 15 16 U.S. Constitution and show you that, in fact, our founding 17 fathers put the patent law into the Constitution. And that's very true. The part he didn't highlight is the purpose of 18 patents, and the purpose of patents is to promote the progress 19 of science. 2.0 Now, you may think that because CommScope finds itself 2.1 sued in a federal courthouse in Marshall, Texas, over patents, 2.2 that CommScope is somehow mad at the patent system or doesn't 23 respect the patent system. And I know the very first thing 24

they want me to say to you is, nothing could be further from

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the truth. In fact, it's 180 degrees opposite from that.

CommScope has the utmost respect for the patent system, and in

many respects is here to protect the integrity of that very

4 patent system. Let me explain to you why.

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CommScope is a company that's drawing now on close to 50 years of existence, founded in 1976, headquartered in Hickory, North Carolina, and they've got a facility right up the road in Richardson, right outside of Dallas. They themselves are an innovator. They have more than 15,000 patents. CommScope has more than 15,000 patents. So when I tell you that they respect the patent system and they respect the integrity of the patent system, that's because they themselves are an innovator and one who seeks and obtains patents for their products and their inventions.

Now, I'm going to move off of CommScope a little bit, but I'm going to give you one sort of fun fact. In 2008 when the Dallas Cowboys built their new stadium in Arlington, and for any of you who've ever -- you've seen it on television or in person, you know that when Jerry Jones and the Cowboys built that stadium, they only wanted the best products. So the folks at CommScope were chosen to provide the connectivity and the products for Cowboys AT&T stadium.

Now when I tell you that, does that mean that we win this case? Of course not. Of course not. But the reason I tell you that is because I think it's some proof of the hard work

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that the engineers at CommScope have gone through to produce products, and it's a recognition in the public that, in fact, they do have some of the very best and brightest engineers and, as a result, some of the very best products.

What's the product we're here talking about? heard a little bit about it already. It's this -- you'll hear it referred to as a modem, and you'll hear it referred to sometimes as a CPE, a consumer premises equipment. So either time you hear those terms, that's what we're talking about. That's the thing that you see there on the left. That's the product that's accused of infringement here.

The thing you see in the middle is an integrated circuit board that is found within that CPE. And then the thing you see on the right is actually a semiconductor chip. And what you'll come to know through the evidence in this case is that the features and the functions in these seven patents that they're here to complain about are actually found in this Broadcom semiconductor chip.

Now, why did I say Broadcom? I said Broadcom because CommScope actually does not make this chip. It's made by a company by the name of Broadcom. Broadcom's a sort of one of the best and brightest American companies. They supply the vast majority of these chips to this industry. And we buy We buy those chips, and we put them on the integrated circuit board and then put them in the CPE.

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Now, who sits at the other table? TQ Delta. You've heard a little bit about them. You're going to hear more as the case goes on. You now -- you know from what was said this morning and what Mr. Davis just said to you that TQ Delta actually bought these patents from a company called Aware.

He talked a lot about Mr. Tzannes. Mr. Tzannes, I'm sure you'll hear, worked at a company called Aware. And in 2012, Aware decided to sell these patents, and TQ Delta stepped in and bought them. And as Mr. Davis said, TQ Delta's business is now managing and continuing development of those patents. That's their sole business. They don't make or sell any products using these patents.

Now, in any lawsuit, I think it's important to step back and talk about the history of how we get to this courthouse here in March of 2023. And I think it's particularly important here because I think it's particularly important to some of the questions that you're going to be asked to answer.

You've heard a little bit about this standard setting organization, the ITU, the International Telecommunications
Union. You've heard both the Judge and TQ Delta's lawyer tell you what standards are, using the wall outlet as an example.

Here's the thing I want to put a little finer point on and talk to you about because I think it's important for what you're here to do. You may have seen in the TQ Delta's opening slide presentation, they showed this big room with all

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these people sitting around a table and looking at people presenting. That was a standard setting organization meeting, and that's what I'm representing here. I've got just a few people sitting around a table, but really there are in the ITU thousands and thousands of members in the ITU.

And so what happens is, at least as what's relevant to what you're doing here, companies within the ITU, sitting in these organization meetings, they make contributions or recommendations that they hope are adopted by the standard. And sometimes those contributions or recommendations are actually patented. So the person sitting around the table says, hey, I've got this contribution I want to make, and they actually have a patent on it.

Now, that's a very important part of the story here, and I'm going to focus on it. But before I do, I want you to understand that these standards that we're talking about in these seven patents here, the standards are hundreds and hundreds of pages long. They contain thousands and thousands of features.

So to the extent that you're under any impression that these seven patents somehow constitute the whole of the standards, not the case, and the evidence will show you that. They're a tiny, tiny fraction of these standards. patents are a tiny fraction of the standards.

Now, here's the part I want to emphasize that TQ Delta's

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lawyer didn't talk about. When you are a member of ITU and you go to make a contribution, you have to tell the ITU whether or not you have patents. So what you see on the screen and what you'll hear in the evidence here in this courtroom, this is the quideline from the ITU. And what it says is, if any party participating in the work of the ITU should from the outset, from the very beginning, draw the attention of the director of the ITU to any known patent or to any known pending patent application, either their own or of other organizations.

So the ITU says, Look, if you're making contributions and you have a patent, you need to tell us, or even if someone else is, you need to tell us that they have patents. It's very important and here's why.

You see those words at the top where it says, prevents This is why this promise in this agreement that we're going to talk a lot about is so important. The standard setting organization does not want people who make contributions and have patents to show up years later for people who used the standard, either by making equipment like us or consumers who actually use it, and hold them up for a lot of money, hold them up for unreasonable amounts of money because that patent is included.

You heard the judge instruct you that when you're a member of the ITU, you sign a contract. And we're going to

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look at it. And the standard setting organization, the ITU, is trying to prevent this holdup. They don't want people showing up years later and demanding unreasonable amounts of money. And at the end of the day, I'm going to tell you that's exactly what's going on in this case.

Here's the contract that the Court was talking to you about. So Aware, who was the owner of the patents at the time, they were in this standard setting organization, they signed this contract. It says, "The patent holder is prepared to grant a license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and on reasonable terms and conditions."

Now, this is the one Aware signed, and you'll see that once TQ Delta bought these patents, they had to sign the same thing. What does this mean? I actually wrote it down. So what TQ Delta's lawyer told you is that means they have to treat everyone in the industry fair and consistent. And he's right. That's the only thing that he said almost that I agree with.

What the contract with the ITU says is, you can't favor one company that uses these patents over another. You have to treat them in a non-discriminatory, fair, and consistent manner. In other words, you can't charge one company much more than another for whatever reason. You can't do it. And that makes sense if you think about the policy. Standard

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setting organizations don't want people who make contributions with patents to then treat people unfairly. I mean, the purpose of these standards is so that essentially the world can use them and everyone has reasonable access to them. And we'll show you the guidelines behind that purpose in the course of this trial.

I heard TQ Delta's lawyer, you remember he showed you that slide where he said these other companies have taken a license, meaning they've paid them money. And we're going look at those in detail. And he's right. Other people have paid them money. But what they have requested of CommScope is absolutely not consistent with what they've requested of other people.

He also said to you, and I wrote it down, he said that what these other licensees have paid is TQ Delta's standard rates. I want you to remember that. He said to you that what they have paid is TQ Delta's standard rates. We're going to look at that closely because I don't think that's the case. At the end of the day, the Judge is going ask you whether or not TQ Delta has breached this promise and this agreement that they made to the ITU.

What you'll come to know is, after this standard was adopted, that DSL has declined since the early 2000s, the use of DSL. You heard this morning, you may remember, and you'll hear in the course of the evidence, there's lots of ways to

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get your internet service -- through your cable TV provider, through your satellite, through fiberoptics, wirelessly, lots of different methods to get it, and DSL has been in decline.

You'll see evidence in the case that Aware, who was the owner of these patents before TQ Delta, they had failed to be able to license these patents. They failed to be able to get any revenue on these patents. And as a result, they decided to sell them in 2012. And in 2012, TQ Delta bought well over 150 patents from Aware, and they paid roughly about a little over a hundred thousand dollars per patent.

One very important thing happened in the course of that sale. What you see on the screen is Exhibit 81, and you'll see this in the trial. This is sort of the pitch package that Aware put together when they were selling these DSL patents. And they said to anyone, including TQ Delta, hey, be aware that if you buy these patents, they have this FRAND obligation with them. They said, we participated in the ITU and because of that there's a FRAND obligation, and that limits what you can receive as a royalty on these patents.

They went further. If you look up here at the top, they told them, hey, we, Aware, as the owner, we have licensed these patents twice. That means we've gone out and charged people for these patents.

What's the effect of that? Well, remember what their contract says and remember what their own lawyer said to you

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this morning—they have to treat everyone fair and consistent with those first two contracts. And I'm going to show you and will show you they're not doing that. What they seek here is not consistent at all with those first two licensing agreements.

This is an excerpt from those first two licensing agreements. You'll see that what they did is they licensed the chip that was contained in these products for somewhere between 6 percent and 1 percent of the sales price. It says IC, that's the integrated circuit, that's the chip. You'll see that, roughly speaking, at this time the chip sold for \$10, somewhere in that vicinity. So somewhere between 60 cents and 10 cents per piece of equipment is what they were charging.

We'll show you that not only are their offers to us not consistent with that, they're not consistent with the other licensees who signed on, and they have absolutely breached their RAND and FRAND agreement, and because of that, they're not entitled to receive the monies they seek here.

Because we told them that, they filed a lawsuit. And as you know from what the Court said, in this lawsuit you're here to decide a couple of other questions. In addition to this breach of agreement, you need to decide whether or not these patents are infringed.

I'm confident that none of you, before you came to court

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today, had probably done an infringement analysis. So I want to spend just a few minutes kind of talking through how that analysis is going to go. It's not -- it's not my job to tell you how to answer, but I do want to make sure, as you hear the evidence in the case, that you know how to apply it to what I think the Court will tell you the law is.

So a patent is infringed only if the accused product, that's that CPE piece of equipment, includes each and every element in the patent claim. And you remember the claim are those words at the back of the patent that define what the invention is. All of that is sort of abstract. I want to kind of give you an example. And I know it's a simple example. It's an example someone gave to me when I started doing patent law, and it helped me.

Assume that someone has a patent on a soccer ball and assume that that patent says it's made of leather stitched together, filled with air, and round in shape. That's what the claim says. Now, assume that soccer ball patent owner sues a football maker. Well, the football maker would come to court and he would say or she would say, it's made of leather stitched together, it's filled with air, but it's oblong in shape, it's not round in shape, and, therefore, there's not infringement.

That's what you do. You compare whatever they say infringes to the claim. That's how it works. And if one word

is missing, Your Honor's already instructed you on this, you 1 2 heard it on the video this morning, if there's one word difference between the product and the claim, then there is no 3 infringement. And that's not a technicality. That makes 4 sense. A football is very different from a soccer ball even 5 6 though there's only one word different. That's the type of analysis you're going to do in this case. 7 So here's what I want to do. I'm going to take one 8 patent. I don't have time to go through them all--and kind of 9 show you a preview of what I think the evidence will show. 10 We're going to present several different experts. 11 enlisted the help of several different experts, each with a 12 particular expertise in these areas. They will testify from 13 the stand, and they'll make these comparisons for you. 14 So for the '048 Patent, you'll see from the claim 15 16 language that it involves allocating shared memory, 17 transmitting or receiving a message during initialization, specifying--and this is the important part--a maximum number 18 of bytes of memory. A maximum number of bytes of memory. 19 That's what the claim requires. 2.0 2.1 What I think TQ Delta will tell you is that time delay, which is in our products and in the standard, is the same 2.2 thing as memory. So I want you to remember that. 23 Memory is not the same thing as time delay. Here's how 2.4

you -- here's what I think the evidence will show you in that

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regard. Remember that the VDSL2 standard is what's important in this case. It's what being accused. But there was a VDSL1 standard. Now, it was never put in commercial products, but there was a standard, and it used an amount of memory.

Remember the claim says the word 'memory'. VDSL1 used memory. But when they were talking about and proposing the second version, VDSL2, Texas Instruments, right up the road here, they proposed a different way to do it. They proposed a time delay.

And you see these excerpts from Exhibit 61 that you'll see in the trial, and what they say is it's specified in terms of a time delay, not in terms of an amount of memory. Not in terms of an amount of memory.

And they say the actual amount of memory required is

And they say the actual amount of memory required is implementation specific. That means we're taking it out of the standard, and each person that builds these products can decide on their own.

You may say, well, did that proposal get adopted? The answer is absolutely. The proposal and recommendation that Texas Instruments made was adopted into the standard so that now you have time delay as opposed to memory. So when they say to you, Hey, our products are standard compliant, that's true, they are. But the standard doesn't operate in the same way that their patent does. And because of that, there's no infringement.

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Now, let me say one thing about this standard essential patent issue. You heard them say that their patents are standard essential. They say that. Don't get confused. The standard setting organization, the ITU, they've never said these patents are essential. That's what TQ Delta says. So don't think that that's something that the organization, the ITU, said. That's not -- that's not accurate.

At the end of the day for this '048 Patent, and we'll show you for others, we'll walk through the same methodology, what I would recommend to you, because we have seven patents, when there's someone on the stand talking, one of the experts, about the patent, you can open up to it, and when the expert says, hey, you can't find this in the patent, the product doesn't match up to the patent, you can just put an X beside that limitation. That way, when you go back in the jury room and you have seven patents and you're trying to remember, you'll know if you've got a little X beside that limitation, that there's no infringement. You don't have to take notes, but that's something I would recommend to you since we've got seven patents here and not just one.

The second question you're going to answer, as the Judge told you, you're here to determine whether or not these patents are valid. And I saw TQ Delta's lawyer hold the patents up and say, look at there at that red ribbon.

And I'm going to tell you I'm concerned, because you

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heard from the video this morning, you've heard from the Judge's instructions, red ribbon or not, you are the ones that make the determination on validity. You are the ones. And there's a very good policy reason for that. You heard it in the video, you heard it from the Judge, the Patent Office did not have the information that you're going to have. The information you're going to hear, you'll be the first people to decide the validity of the patents based on the full amount of information.

Every one of us in our lives have made decisions based on facts we had in front of us that we would absolutely fight to the death to say they were the right decision. Right? Only to learn some additional facts later and realize that we weren't actually right because we didn't have all the facts.

So we're not here saying that the Patent Office doesn't know what they're doing or that they made mistakes even.

We're saying they didn't have all the information. The concept behind invalidity, as you heard this morning on the video and from the Judge, is were these concepts in these patents new, were they new, were they the first to have them or did they exist before these patents.

We're going to show you that they weren't new for these four patents, not all seven, just four of them. For these four, we'll show you that these concepts in the patents were not new. And, again, that's our burden to show you, and

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here's how we'll do it. Again, I'm not going to go through all four, but I'll take one and give you an example so that you kind of have a roadmap and a preview of how this will play out from the stand.

So let's take the '686 Patent. This is a patent that in broad language deals with diagnostic information, trying to diagnose whether or not there are problems. Okay? What the patent talks about, in addition to other things, is these DMT symbols that are mapped to one bit of the diagnostic message and that receive idle channel noise information. Okay?

And so you say, and this is what you'll hear from the stand on the evidence, well, was that new? Was that Mr.

Tzannes -- by the way, Mr. Tzannes wasn't the inventor, and

I'll show you in just a second on this. But the question is,

is that actually new or did someone have this concept and this idea before this patent?

And what the evidence will show you is, if you look there on the left, there was a sort of a predecessor standard to VDSL called ADSL. And you'll see that a company called AT&T, a company that you've certainly heard of, had a proposal, had these ideas and these concepts before the '686 Patent was filed.

In addition to that, and I think probably more importantly, we asked the two inventors. You heard the Court talk about deposition testimony? Deposition testimony is

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where we get to ask these folks questions under penalty of perjury, they raise their right hand, they swear to tell the truth, we'll show you their video here.

So we asked these inventors, remember those two concepts that I just showed you, DMT symbols and idle channel noise information. So David Krinsky, the inventor, we said to him, did you invent the concept of idle channel noise, information testing? Probably not. And you'll see, when you watch this video, I want you to watch -- it says, probably not there. But when you see his video, you'll almost see him chuckle because it's so absurd that anyone would suggest that he invented it.

THE COURT: You have five minutes remaining.

MR. DACUS: Thank you, Your Honor.

Then Mr. Pizzano, second inventor. By the way, Mr. Tzannes, nowhere on this patent. He said, We used the one bit per symbol messaging scheme. You remember? That's map to one bit of the diagnostic message. That's supposedly what was new in the patent.

We asked him, Well, did you pull that from the ITU standard? And he said, We reused existing standardized symbols. Think about that. What you're supposed to have in a patent is something new. And what he said is, we reused existing. That's 180 degrees opposite of new. So that's the evidence that you're going hear from the stand.

those four should be invalidated.

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I sort of pause here and emphasize because I know jurors, when we say to you we want you to find a patent invalid, I know you pause and say, well, prove it to me or show me. This is the proof you're going to see. The patent is not new, and

I'm going to wind up here. What you'll hear is evidence here, in order to get to their \$90 million, they ask for as much as \$2.99 for each one of those CPE products that we sell.

Now, let me say a couple of things about that. One, you may say, well, that doesn't sound like a whole lot of money, \$2.99. You will come to know that this is a very competitive industry. You will come to know that profit margins are very slim. And you'll come to know that the number of patents in these standards are hundreds, hundreds of patents in these standards, not just these seven. All these people contributing -- many of these people contributing have patents.

And what you'll ultimately see through the evidence is that Aware originally, and now TQ Delta, they have charged others in the industry much, much less, much less than what they seek to charge us. And because they're violating that very important RAND agreement or RAND promise that they made related to these patents, they are not entitled to the monies that they seek here.

I think that's a fair summary of what you're going to

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hear and see over the next week. We appreciate very much your
      We look forward to presenting the evidence to you.
I'll say one last time just so I can sleep better this
weekend, please remember we don't get to put on our case until
next week and please wait until you hear all of the evidence
to make a decision. Thank you very much.
     Thank you, Your Honor.
          THE COURT: Does either party wish to invoke the
Rule?
          MR. DAVIS: Yes, Your Honor, Plaintiff does.
                     All right. And do I gather that your
          THE COURT:
invocation of the Rule would exclude expert witnesses and
corporate representatives?
          MR. DAVIS: Yes, Your Honor.
                     All right. The Rule has been invoked as
          THE COURT:
clarified in the record, which means that if you are a fact
witness in this case and you're not the corporate
representative for a party, then you should remain outside the
courtroom while the other witnesses testify and until you are
called to testify.
     Now, before I ask the Plaintiff to call their first
witness, we're going to take a very short recess, ladies and
gentlemen. This is one of those times where you can just
simply close and leave your notebooks in your chairs. I don't
expect this to be long. But take an opportunity to stretch
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     your legs get a drink of water.
          We'll be back and begin with the Plaintiff's first
 2
     witness in just a minute. Follow all my instructions,
 3
     including not to discuss what has been presented to you so far
 4
     or discuss the case among yourselves.
 5
          The jury is excused for recess.
 6
                (Whereupon, the jury left the courtroom.)
 7
               THE COURT: Court stands in recess.
 8
                              (Brief recess.)
 9
               THE COURT: Be seated, please.
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11
          Are you prepared to call your first witness, Mr. Davis?
               MR. DAVIS: Yes, we are, Your Honor. Mr. McAndrews
12
     will do the direct examination.
13
               THE COURT: That will be fine. Let's bring in the
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     jury, please.
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                (Whereupon, the jury entered the courtroom.)
17
               THE COURT: Welcome back, ladies and gentlemen.
     Please have a seat.
18
          We'll begin with the Plaintiff's case in chief.
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          Plaintiff call your first witness.
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               MR. DAVIS: Your Honor, Plaintiff calls Mr. Marcos
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     Tzannes, and direct examination will be by Mr. Pete McAndrews.
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               THE COURT: All right. Mr. Tzannes, if you'll come
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     forward and be sworn by our Courtroom Deputy, please.
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                (Whereupon, the oath was administered by the Clerk.)
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- THE COURT: Please come around, sir, have a seat at 1
- the witness stand. Why don't you pull that microphone just a 2
- little closer. Thank you. 3
- All right, counsel. You may proceed with direct 4
- 5 examination.
- 6 MR. McANDREWS: Thank you, Your Honor.
- MARCOS TZANNES, SWORN, 7
- having been duly sworn, testified under oath as follows: 8
- DIRECT EXAMINATION 9
- BY MR. McANDREWS: 10
- Good afternoon, Mr. Tzannes. Would you please introduce 11
- yourself for the jury? 12
- My name is Marcos Tzannes. 13 Α.
- And did you invent the patents TQ Delta is asserting in 14
- this case? 15
- I'm the inventor on six of the seven patents in this 16
- 17 case.
- Are you familiar with the seventh patent? 18
- Yes, I am. The two inventors on that case were on my 19
- team at a company called Aware. I presented the problem to 2.0
- 2.1 them and they worked out the solution, explained it to me.
- So, yes, I was there for that. 2.2
- So what technologies do the patents in this case 23
- generally relate to? 24
- They relate to technology called DSL, also known as 25

- digital subscriber line, which is a technology that takes 1
- standard old telephone lines and basically converts them into 2
- high speed data pipes. 3
- So how many people use DSL these days? 4 Q.
- Today in the world, more than 500 million people use DSL. 5 Α.
- 6 When did you start working on DSL technology?
- I started working on DSL when I was in graduate school in 7
- 1991. 8
- Are you familiar with the standards in this case? 9 Q.
- Α. Yes, I am. 10
- 11 How are you familiar?
- So after I came out of graduate school in 1992, I started 12
- working at the DSL standards. So I've been working up there 13
- for over 30 years. 14
- Do you have other patents, Mr. Tzannes? 15
- 16 THE COURT: Just a moment. You got that turned off?
- 17 I'm sorry. I apologize. Let's continue.
- (BY MR. McANDREWS) Do you have patents in addition to 18 Q.
- the patents asserted in this case, Mr. Tzannes? 19
- Yes, I do. 2.0 Α.
- 2.1 Q. About how many?
- I have about 100 patents on DSL total. 2.2 Α.
- So where did you go to college? 23
- So I got my undergraduate college degree at the 24 Α.
- University of Central Florida in Orlando, a Bachelor's degree 25

- in electrical engineering. 1
- Did you go to graduate school?
- Yes. I went to the University of California-Berkeley, 3 Α.
- and I got a Master's degree there under a National Science 4
- Foundation fellowship. 5
- 6 What is a National Science Foundation fellowship?
- So a National Foundation Fellowship is a scholarship 7
- that's given to undergraduate students to pursue a Ph.D. in 8
- graduate school. It covers your room, your board, your 9
- tuition. It's like -- it's like -- for engineering nerds like 10
- me, it's like a full ride. It's the best thing you can get. 11
- So did you get your Ph.D.? 12 Q.
- No, I did not get my Ph.D. 13 Α.
- And what did you do instead? Q. 14
- Well, what happened was in my first -- after my first 15
- year in graduate school, I went and took a job at a small 16
- 17 start-up called Aware in Boston. And after that summer, I
- decided to quit the Ph.D. program and to drop out of school. 18
- So why -- why did you decide to do that? 19
- Well, I realized while I was there that actually what I 2.0
- 2.1 enjoyed rather than studying things was to actually build
- things, and I kind of figured out that I have kind of a knack 2.2
- for solving problems that others had not been able to solve 23
- before. 2.4
- Q. So was leaving graduate school an easy decision? 25

- No, it wasn't. I mean, I had a full scholarship. 1
- I -- I mean, the original idea was I was going to get a Ph.D. 2
- and become a university professor, which is what my dad was. 3
- So my parents were really not happy about it. 4
- Did you regret your decision to drop out? 5
- 6 No, I don't. I didn't and I don't. It ended up being
- the best decision I ever made. I went to this small company 7
- Aware. And we -- along with my colleagues, we put together a 8
- team, and we developed this DSL technology that, you know, 9
- ended up getting internet to, you know, hundreds of millions 10
- of people all over the world. 11
- So when did you join Aware? 12
- I joined Aware in 1992. 13 Α.
- And what did you do when you first got there? 14
- So Aware at that point in time was focused on different 15
- technology called image compression. And so my brother and I 16
- 17 started there at the same time, and we founded this digital
- subscriber line, this DSL group, at Aware. 18
- So what made you decide to want to start a DSL group? 19
- So I was studying a technology called multicarrier 2.0
- modulation, and that is an advanced wave communicating 2.1
- over -- of communicating signals, and multicarrier modulation 2.2
- was just starting to be applied to DSL. 23
- So what did founding the DSL group involve? 2.4 Q.
- So the first thing that I had to do was basically go out 25

- and hire a bunch of engineers, you know, the best -- the best 1
- engineers that I could find. 2
- So, Mr. Tzannes, you recognize this photograph on the 3
- screen? 4
- Yes, I do. 5 Α.
- 6 And what are we seeing here?
- So this is a photograph from a long time ago with -- at 7
- one point, this was our team. These are the engineers that I 8
- hired. And I'm in the back here. You can see me. That's me. 9
- I have a lot more hair at that point. And the other -- the 10
- 11 other engineers are all these guys that ended up working on
- DSL with me. 12
- So how many people did you end up having in the DSL 13
- group? 14
- We ended up having over a hundred people. So this was 15
- 16 early on.
- 17 And what kind of people did you recruit for your group?
- So we had to recruit really smart men and women because 18
- DSL is very difficult. And so these guys -- and most of them 19
- had master's, PhDs, in electrical engineering and computer 2.0
- science. 2.1
- So at a high level, what is DSL? 2.2 Ο.
- So at a high level, we've heard this a couple of times 23
- already, what DSL is is it takes the standard old phone 24
- lines -- I think maybe the next slide. Yep. -- standard old 25

phone lines that the telephone calls, these phone lines, POTS, 1 plain old telephone service, and it took these phone lines and 2 it converted them and -- and, you know, so we developed this 3 technology. And they were able to convert them into high 4 speed data rate pipes to people's homes. 5 6 So is DSL a complex technology? Yes, it is very complex because, you know, when the --7 when the telephone companies put in these phone lines, they 8 never intended to use them for this purpose. They were used 9 for voice calls. And so it was -- you know, the -- the -- the 10 11 technology to do that and to actually -- the algorithms that go into making that work is what we did at Aware. 12 So is it difficult to get high speed data over phone 13 lines? 14 Yes, it is. If you go to the next slide, it can explain. 15 So when we speak, we speak in what's known as the voice 16 17 band. So the frequencies that are coming out that we can hear are in a very -- very narrow bandwidth known as 4,000 Hertz. 18 And so that's this normal range that phone lines were designed 19 to operate in. 2.0 2.1 But if you want to transmit a DSL signal, the DSL signals, they don't -- they're not in the 4,000 Hertz range. 2.2

They're in a 30 million Hertz range. So what ends up happening is the signal that's traveling on that phone line, when it -- when it goes, you know, basically seven and a half

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thousands times wider than the original voice signal does, a
lot of really bad things start happening and it's a very
difficult problem to solve.

O. So are there challenges in communicating above the voice

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- Q. So are there challenges in communicating above the voice band over telephone lines?
 - A. Yes. So the two -- two main challenges -- I would categorize them as two main challenges. The first challenge is that phone lines are, you know, they're connecting homes.

In the previous slide, if you could just go back for a second, what happens is, you know, everybody lives near a central office. So the central office is where the phone company has all their -- all their telephone equipment, the switches, and every person is basically -- lives within the United States or 95 percent of us at least live within four or five miles of one of these central offices. So we have a phone line that connects our house to the telephone company.

So when you talk over these phone lines, it works -- it works quite well. But when you send a DSL signal over these phone lines, if you send a DSL signal, for example, two miles from the central office to a person's home, that signal will -- while it's traveling, will get really, really, really small. In fact, it will get 10,000 times smaller than it was originally.

And so in order to recover that signal, you need to have this technology inside the homes to actually compensate for

- that and fix the problem that it's so small.
- So are there any other challenges?

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Yes. The other challenge is -- is noise. If you can go 3 Α. two slides ahead. 4

So the -- when we talk on the phone, you know, we don't hear these types of noises. But when DSL signals are transmitted, things you wouldn't expect to interfere, actually interfere with the DSL signals. Appliances in the home that have power supplies, those power supplies interfere with our -- with DSL signals. They actually cause -- they disrupt them.

The weather changes. So if your weather changes between, you know, 90 -- say in the morning it's 70 degrees and it goes down to 60 degrees at night, that actually affects the DSL signal. Lightning affects the DSL signal. AM radio affects the DSL signal. So all of these things were -- were causing problems to the DSL signals when they were being transmitted.

- Why wouldn't these same noise sources affect voice Q. communications?
- Well, voice communications, I mean, the phone line was designed for this, so they actually have shielding around them. You've probably seen it. And this shielding does a good job protecting the voice signals, but it doesn't do a good job protecting the signals -- the DSL signals.
- So why does noise matter in a DSL system? 25

they were using it for was voice, but what they could do now

is actually take that and convert it into an infrastructure

that would enable them to provide DSL service literally to

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- every single person in America. So it was a big deal. 1
- So is DSL still used today?
- DSL is still used today, yes. And now -- I mean, we use 3
- it for all the things that, you know, we enjoy. You know, 4
- Netflix and Amazon Prime, whatever you watch, Zoom calls--all 5
- 6 that stuff uses DSL.
- So what did Aware develop for DSL? 7
- So what we did at Aware was we developed the technology 8
- that goes inside the boxes, you know, this box that's inside 9
- your house, the technology that actually fixes all these noise 10
- problems, all this attenuation problem, and makes sure that 11
- you can get the highest possible data rate. It's kind of like 12
- the brains of what's inside that device. 13
- Did Aware partner with other companies? Q. 14
- We had several partners. We were the leading 15
- 16 technology provider for DSL in the world. So what we
- 17 are -- our main partner was a company called Lantiq, also
- known as Infineon. And they were our -- one of our first 18
- They were one of the first companies that we 19
- deployed DSL with. 2.0
- And that strategic partnership with them enabled us to 2.1
- learn a lot about how to create new inventions for DSL. 2.2
- we worked with them for 10 years and developed -- so we would 23
- develop technology, and they would put that technology inside 24
- their semiconductors and sell it to other companies. 25

- Did Aware have other partners? Q.
- We had several partners. A big one was Analog
- Devices, but other ones that you may know was companies like 3
- Intel, AMD, Lucent, ST Micro, Tarnex (ph), Fujitsu, NEC in 4
- So all the companies that build chips, semiconductors. 5
- 6 So what did Aware's partners do with the DSL technology?
- So what the partners would do is we would -- we would 7
- create the inventions and create the technology, and then we 8
- would work with them to incorporate that technology with 9
- software, firmware, designs, into their -- into their 10
- semiconductors. And then they would fabricate or manufacture 11
- those semiconductors and sell that, those semiconductors, 12
- to -- to other people. 13

- So did Aware make any physical products for DSL? 14
- No. Aware -- we did not make physical products. 15
- -- we developed the technology at Aware, and that's -- so what 16
- 17 we did, if you -- you can think about almost like three
- phases. The first phase is you develop the inventions and the 18
- new technology, which is actually the hardest part. 19
- The second phase is when you are putting that technology 2.0
- 2.1 into a form that can be put into -- into products, and that
- would be software, it would be designs. So we would develop 2.2
- that as well at Aware. 23
- And then we would take that and actually work with a 24
- company that built the physical products, incorporating into 25

- their products. That process took years, by the way. 1 then that would be sold off to the -- to other companies. 2
- So they built the physical products. Aware did not. 3
- So what was your primary work at Aware? 4 Q.

Did you have any other roles?

- So I led the -- so I started the group, and I led the 5 6 team of engineers we -- for several generations of this DSL
- technology while I was there.

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- I also was the person who went to these standards 9 groups you've been hearing about. This is the organizations 10 where the DSL standards are -- are created. 11
- So what is an industry standard? 12
 - So an industry standard or a DSL standard is a document, Α. a specification, and it's -- it's big. And what it has inside of it is the exact way that you build the device.

So if you're -- if you're building a cell phone, it tells you exactly how to build that cell phone so that it communicates with another cell phone. And by having two manufacturers build their devices the exact same way, according to the standard, you can assure that if you have a cell phone that's built by Samsung or, you know, one of the other -- some company, it can talk to a cell phone that is actually built by Apple. And that happens because both of those companies built theirs according to the same standard.

Q. So who develops standards?

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They are developed by the standards organizations. there are many of them. But what happens at these standards organizations is companies go there, all the companies that are interested in this industry, go there and they agree -- first we -- we -- you put in -- you develop the technology that's going to go in there. So you write the spec all together, everybody gets together, you know, and has a common specification and agree to use that in the products. So where are DSL standards developed? So DSL standards are developed in a place called the ITU, also known as the International Telecommunications Union. And that is a multinational international standards body that is in Geneva, Switzerland. And it is -- the members are companies like Aware is a company, TQ Delta is a member, and these companies -- but the other members are actually administrations, actual countries. And the reason that countries are a part of it is that, you know, you have to make sure that the signals actually cross -- travel across borders so you can talk to someone in the U.S., you can talk to someone in Japan. So even the countries are involved in agreeing to use common standards. How much work have you done with the ITU? Ο. I started working in the ITU on DSL in 1997. So I've worked there for about 25 years. Q. Now, do you recognize this slide?

Α. Yes.

- And can you tell me what's going on here?
- So this is from 2012. And that's the chairman of the ITU 3 Α.
- there, and he is giving me a -- an award or appreciation that 4
- the work that I had done at the ITU on DSL. 5
- 6 Does ITU give out recognitions like this very often?
- You know, I don't know if they've given it out for other 7
- technologies, but I'm the only person to get this for DSL. 8
- So how many meetings have you attended over the years for 9
- ITU? 10
- Well, I've attended hundreds of meetings, and I actually 11
- calculated that I've spent 10,000 hours in meeting rooms 12
- designing these products. 13
- Is that all the time you've put into DSL development? 14 Q.
- No, because when you go -- before you go to the meeting, 15
- 16 you actually have to prepare and actually come up with a
- 17 design because everybody is proposing their own design. And
- so more time probably is spent outside of that, actually. 18
- So who participates in the ITU meetings? 19
- So the companies that participate are the ones that are 2.0
- 2.1 interested in -- in DISL standards. So the examples would be,
- you know, technology providers like Aware and TQ Delta. 2.2
- other companies would be chip manufacturers, for example, like 23
- we've heard Broadcom and others. And then it would be 24
- telephone companies so AT&T, you know, Bell South. But also, 25

- Q. So why would competing companies come together like that?
- 3 A. Because the purpose of the standard is to create the
- 4 | biggest possible market and everybody -- so if it's a good
- 5 standard, everybody wins. So even though they are competing,
- 6 | we get together, agree on a common standard, and, you know, it
- 7 makes the market bigger for everybody and everybody is
- 8 successful.
- 9 Q. Where do ITU meetings take place?
- 10 A. So the meetings take place about once a year in Geneva,
- 11 | Switzerland. That's where the main meetings happen. It's a
- 12 two-week long meeting. And then there's interim meetings that
- 13 | happen every two months or so. And they occur -- they rotate
- 14 | because all the companies are from all over the world. So
- 15 | they rotate between the -- between the U.S., Europe, and Asia,
- 16 | hosted by different companies.
- 17 | Q. So does this require a lot of travel?
- 18 A. Yes. Traveling is part of the job, yeah.
- 19 | Q. So about how many people participated in creating DSL
- 20 standards?
- 21 A. So I think it varied over time. But the way to think of
- 22 | it is really there's kind of two groups of people. You have
- 23 the group of a hundred or so companies that were the ones who
- 24 | were interested in DSL standards, and then you have the
- 25 | smaller group of maybe 10 engineers or so who are actually, or

less, who are actually doing the real nitty-gritty, kind of 1 nuts-and-bolts design work. Those are the guys who are 2 actually putting together the actual -- the actual standard. 3 Do you recognize this photograph? Q. 4 Α. Yes. 5 6 Can you tell me what's going on here? So this is a photograph from probably the late '90s. I'm 7 circled in the middle there, and this is from one of the 8 larger group meetings where you have a hundred people. 9 this -- the way that these meetings are set up is they're 10 11 pretty formal. In front of every person is their name, like what company they come from. So you can see an individual 12 from Nortel in the front there. My placard back there would 13 say Aware. 14 But you have got countries there, too. So this guy here 15 actually, this guy right here, he actually was from the U.S. 16 17 State Department. So he has -- because the U.S. State Department is there, so he would have something that would say 18 literally United States of America in front of him. 19 So what would occur in these larger meetings? 2.0 2.1 In the larger meetings is where the actual final standard was approved. So this is where, when the standard was --2.2 everybody had worked on it, the smaller technical group had 23

kind of generated the standard that -- it would appear in

front of all these folks, and they would approve it or not

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- 1 approve it.
- Would CommScope have a representative in this room?
- Yes. CommScope would have a representative in this room. 3 Α.
- Can you tell me what's happening in this slide? 4 Q.
- So this is an example of the smaller group. So here I'm 5
- 6 at the -- at the white board, and this is one of these groups
- where I'm actually explaining some of my technology to the 7
- other people in the smaller group committee. And this is the 8
- way the kind of the real work happened to generate these 9
- standards. 10
- Can you identify any of the people in this photograph? 11
- These are several guys that I've known for many 12
- The one to the right of me there kind of facing us, he 13
- is from Alcatel Nokia. There's a couple of people from 14
- The guy whose back is to us, the closest, is actually 15
- from Analog Devices, a friend of mine. He was one of the --16
- 17 one of our partners.
- So did CommScope participate in these small meetings? 18
- So, I mean, CommScope was -- was probably in -- in the 19
- back of the room listening to part of this meeting, but they 2.0
- were not involved in the actual technical discussions that 2.1
- were happening in the meetings. 2.2
- So did any technology contribution from CommScope ever 23
- end up in the DSL standard? 24
- CommScope didn't make any contributions that ended Α. 25 No.

- up being adopted by the standard. 1
- Do you recognize this photograph?
- Α. Yes. 3
- And what are we seeing here? 4 Q.
- This is like a more modern version of what it looks like 5
- 6 So we have big screen TVs, and, you know, the -- this
- is what the ITU looks like today. 7
- So who are the people up on the stage in front? 8
- Those are the chairmen or chairladies of the group, and 9
- they are the ones who are the leaders of the committee. 10
- 11 Ο. Were you ever up on the stage in front like that?
- I -- I -- when I started in 1997, I chaired several 12
- committees, eight actually committees, and I was the chairman 13
- of one of the standards that's in this case called G.bond. 14
- You'll hear about a lot. So I chaired that committee. 15
- 16 So, generally speaking, how does the ITU create the DSL
- 17 standards?
- So generally the way it works is the telephone company 18
- will come to the ITU and will inform -- I mean, the engineers 19
- there of the problems that they may be having with their 2.0
- 2.1 service or some requirement that they have. And then the
- standard people or the -- the committee members, we get 2.2
- together and we try to figure out a solution to those 23
- That often requires developing new technology that 24
- had not been developed before. 25

- And so then every -- everybody who has a good idea brings 1 that idea in, and there is a huge -- there is a discussion and 2 an evaluation process, and we pick the best one. We pick the 3 best idea to solve the problem. 4
- So how does that -- how long does the technical 5 6 evaluation take?
- It takes a really long time. I mean, typically it 7 takes -- it can -- at least four or five years just to --8 pick -- just to create one standard. 9
- So did you propose solutions to the problems identified 10 by phone companies? 11
- Yes, I did. 12 Α.
- Were your inventions always selected into the standard? 13 Q.
- No, certainly not. I mean, many were but not all of 14 them. 15
- 16 Did you feel comfortable sharing your inventions with the 17 ITU?
- Yes, yes, we did, because if it was something new and it 18 was inventive, we would have filed a patent on it. And that's 19 the whole idea is that you file a patent at the U.S. Patent 2.0 2.1 Office, then you -- and as long as the patent is granted, then you have that intellectual property right. And so then you 2.2 can disclose it to others and you know that your right is 23 protected. 24
- Is there a process to notify the ITU that the technology 25

- you contributed is patented? 1
- Yes, there is.
- And how does that work? 3
- You submit what's known as a patent declaration. So this 4 Α.
- is a form that you submit to the ITU, and you tell them that, 5
- 6 you know, my company has patents that are going into this
- standard that you're approving. 7
- Have Aware and TQ Delta submitted any such patent 8
- statements? 9
- Yes, we have. 10 Α.
- Ο. About how many? 11
- We've submitted 140 -- 140 patent statements. 12 Α.
- And how do you know that? 13 Q.
- Well, I was the person who submitted them, but also 14
- because I looked recently on the website. You can go on the 15
- website, the ITU website, and search. If you search for Aware 16
- 17 or TQ Delta, you'll see that all the patent statements are
- there available to anyone to see, and there's 140 of them. 18
- So what are the DSL standards at issue in this case? 19
- The main DSL standards, there's three of them. The first 2.0
- one is called VDSL2. I think we have a slide for this, do we? 2.1
- Yes. 2.2 Ο.
- VDSL2, which stands for very high speed DSL 2. 23
- second one is called G.INP, also known as G.998.4. We're not 24
- going to call it that. You're going to hear G.INP, and the 25

- third is called G.bond. 1
- Did you submit a patent statement for all three of these
- standards? 3
- Yes, we did. Α. 4
- Do you recognize this document? 5
- 6 Α. Yes.
- And what is it? 7 0.
- This is a patent statement that is submitted for the 8
- VDSL2 standard. 9
- And --Ο. 10
- And as you can see here, it states that -- this call-out, 11
- it states that, the patent holder believes to hold granted 12
- patents and/or pending applications whose use would be 13
- required to implement the above ITU-T recommendation. So in 14
- the ITU, they call recommendations -- they call standards, 15
- 16 recommendations. It's the same thing.
- 17 Do you recognize this document? Q.
- This is for G.INP, the licensing or patent 18 Yes.
- declaration for G.INP. 19
- And how about this document? Do you recognize this 2.0
- document? 2.1
- This is the patent declaration for G.bond. 2.2 Α.
- And did you work on all three of the standards, these 23
- three standards, at the ITU? 24
- Α. Yes, I did. 25

- Do you have any idea how long you spent working on these 1
- standards?
- Α. For over 15 years. 3
- How does the ITU vote on what goes into a standard? 4 Q.
- 5 The ITU doesn't really vote. The ITU uses what's --
- 6 something known as consensus to approve a standard.
- What is consensus? 7 Ο.
- Consensus is -- it's not a majority vote type thing. 8
- It's actually harder to get. What it means is that even a 9
- single company can actually delay the approval of a standard. 10
- So were there any objections to the three standards in 11
- this case when they were approved? 12
- All three standards were approved by what's known as 13 Α.
- unanimous consent, which means no one -- everyone approved it. 14
- Was CommScope one of the companies that agreed to the 15
- 16 approvals?
- 17 Α. Yes, they were.
- Now, how long did you work at Aware? 18
- I worked at Aware for 20 years. 19
- And what did you do after you left Aware? 2.0 Ο.
- After I left Aware, along with my brother Michael 2.1
- Tzannes, we started a small business called Tzannes Patent 2.2
- Management, and what we do is we provide consulting services 23
- for patent, patents, and technology issues. 24
- So who are the customers of the Tzannes Patent 25 Q.

1 Management?

- 2 A. Well, we really only have one primary customer, and that
- 3 has been TQ Delta. And we've work with them for over 10
- 4 years.
- 5 | Q. So why is your brother part of Tzannes Patent Management?
- 6 A. My brother is an electrical engineer like me. He
- 7 | actually has a Ph.D. in electrical engineering, and he is very
- 8 knowledgeable and he worked on DSL like me for many years.
- 9 Q. And how did you start working for TQ Delta?
- 10 A. So after my brother and I, Michael Tzannes, left Aware,
- 11 | we were approached by Abha Divine, and she told us that
- 12 | after -- so TQ Delta had just acquired -- just purchased all
- of Aware's patents on DSL. And so she told us that they were
- 14 | still interested in developing new technology for DSL. And I
- 15 | mean, this was an amazing opportunity for us. So we were very
- 16 | excited to start working with them on developing new -- new
- 17 technology, continue doing basically what we had done at
- 18 Aware.
- 19 Q. So what did you do to continue to develop new DSL
- 20 | technology for TQ Delta?
- 21 | A. Well, the first thing that TQ Delta did was to join the
- 22 | ITU, because that's a critical part of being involved in the
- 23 DSL industry, and then we went to -- you know, we continued to
- 24 go to the standards meetings and develop -- and try to come up
- 25 | with new solutions to these problems.

A. Yeah. We invented a new type of low power mode for -for DSL devices. So one of the things that happens is that a
lot of these devices, they are always on, like even when you
go to bed at night, your little modem by your computer there
is still running. So that's expensive and power -- and it
consumes power. So we came up with a new way to actually make
sure that during the off times, that would be going to low
power mode and save power and electricity costs.

- 11 Q. So is this invention adopted into the ITU DSL standards?
- 12 A. Yes. The ITU adopted this into their standards.
- 13 Q. Now, what else do you do for TQ Delta?

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prosecution, which you may have heard about already, which is
when you file patents with the Patent Office, there's a

So I also help them with something called patent

process to do that. And I help them with that process for

- 18 both in the U.S. and internationally how to file patents.
- 19 Q. Do you do anything else for TQ Delta?
- A. Yes. I also help them with technical support in their
 licensing efforts. So when you are licensing to companies,
 you often have technical discussions to explain to them why
 technology is being used. And so I would be involved in that.
 And in the cases where unfortunately you end up in litigation,
- I would help with that, too.

- So how much has TQ Delta paid your company? 1 Q.
- So we've done a lot of work for TQ Delta over the years.
- I calculated that over the past 10 years, my -- my company has 3
- been paid around \$800,000 a year to -- for TQ Delta work. 4
- 5 And do you get to keep all of that money?
- 6 I mean, we run a small business. So I -- my salary
- or what I take home probably is in the \$300,000 range per 7
- year. 8
- Are you being paid by TQ Delta for your testimony here 9
- today? 10
- 11 Α. No.
- Do you have any ownership stake in TQ Delta? 12
- No, I do not. 13 Α.
- How much -- do you make any additional money depending on 14
- what the jury decides? 15
- 16 Α. No, I don't.
- 17 So this is Exhibit 1. It's U.S. Patent No. what we've Ο.
- been referring to as the '881 Patent. Do you recognize this 18
- patent? 19
- Yes, I do. 2.0 Α.
- 2.1 Ο. Are you an inventor?
- I am one of the inventors. The other inventors are 2.2 Α. Yes.
- Ed Reiter and Chris Cahill. 23
- Do you have the patent here with you today? 24 Q.
- This is -- you've seen this already. This is the 25 Α.

- 2 | with a seal on it.
- Q. And how do you think of the '881 Patent?
- 4 A. I think of this patent as the bonding patent.
- 5 Q. And what is bonding?
- 6 A. So bonding is -- I think the next slide helps. Bonding
- 7 is when you take two phone lines that go to a person's home,
- 8 and you use them to get a higher data rate to that home. So
- 9 many homes in the U.S. actually have more than one phone line
- 10 going to them, and so it makes a lot of sense to actually try
- 11 to find a way to use both those phone lines to increase the
- 12 data rate going to people's homes.
- 13 Q. So what problems did bonding address?
- 14 A. So this is very early on in the deployment of DSL. What
- 15 | was happening was the telephone companies were seeing that
- 16 | they were facing two problems. The first problem they were
- 17 | facing was that some homes were just too far away from these
- 18 | central offices. So they could have been four or five miles
- 19 | away, and at that point the actual data rate they could get
- 20 | over these phone lines was very, very low for DSL. It wasn't
- 21 | enough to provide really good internet access.
- 22 So the idea was, at least the original idea was, we could
- 23 | just use two phone lines and double the data rate because if
- 24 | you have one that does that, you get two, you get double the
- 25 data rate and that would actually get them to better -- to

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provide DSL to those -- those other companies, the other people.

The other problem was that even for people who were close, they wanted to get higher data rates to them because they're competing with cable companies, of course. So if they could double the data rate they offered to everybody, that was a huge, huge advantage to them.

- Q. So did you invent the general idea of bonding?
- A. No. We did not invent the idea of using two phone lines.

 Of course not. We -- we invented, though, the technology that
 was needed to actually address the problems that you face when
 you really try to do that in the real world.
- Q. So what real-world problems did you face?
 - A. So one of the problems we faced was that no two phone lines, even if they are going to the same home, they're just not the same. We thought they would be the same and we could double the data rate, but actually that wasn't the case.

If you go to the next slide, please.

So it was mentioned earlier, these phone lines have been installed over a hundred years. And, I mean, to put it -- I mean at this point they are basically -- many cases it's just a complete mangled mess. So even though two phone lines are going to one home, one may be going, you know, straight to the home, the other one may have gone to some house that didn't exist anymore and now it's going to that home.

So the end result was that the original idea that we're 1 going to have these two nice clean phone lines just wasn't 2 true. 3 So why does it matter that the phone lines are not alike? 4 Q. Because when they're not alike, they don't have the same 5 6 data rate. Remember, the idea was we could just double the But when we ended up doing it, you ended up 7 saying, let's say you had the first phone line that could do 8 20 megabits a second. You took the second phone line, and it 9 only did 10 megabits per second. So you weren't actually --10 you weren't actually getting the doubling of the data rate 11 that you thought you were going to be getting. 12 So why does it matter if the data rates are not the same? 13 Q. Well, yeah, there was another problem that came up where 14 we didn't have the same data rates, and this is where I'm 15 16 going to have to explain a little bit how bonding works. 17 So if you think about what happens when you're trying to send something down two phone lines, you're going to 18 have -- let's say you're trying to send a large file or a 19 large document that has pages. You would -- you would try to 2.0 2.1 send, let's say, you know, you try to send the pages. you send -- the first page would, for example, go down the 2.2 first phone line. The second page would go down the second 23 phone line. The third page was back on the first phone line. 24

So like the odd pages are going down the first phone line and

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the even pages are going down the second phone line. And at the other side, you need to put them back in the right order.

Right? So the person can read it.

Now, the problem we had was that when the data rates were really different, the first phone line, all the data would arrive -- the pages would arrive very quickly, and the other one would take a long time to arrive because it was a much lower data rate. So you had like all the odd pages there and you have to store all this data, all these pages, while you're waiting for the other pages to come.

Now, this is a simple example with pages, but imagine if it was video. You have to store, you know, seconds' worth of a movie which actually is, you know, megabytes of data at the other side, and that storage is a big deal.

- Q. So why is storing a big deal?
- A. Storing is a big deal because storage or memory is probably in most cases the most expensive component in any device. I mean, when you buy a cell phone, you know, think about how much the price goes up when you want to get more memory or storage on that cell phone.

So, you know, with bonding with different data rates, you know, you end up having to put all this, memory it was making the devices a lot more expensive.

Q. So what was the existing solution to bonded lines with different data rates?

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the same time.

The existing solution was to just take the different data rates, and so if you had one that was at 20, the other one was at 10, and just, you know, throttle back the one that was at 10 so that those were at 20 so they are at the same data rate. Because if they are at the same data rate, then they arrive at the same time. But guess what happens. If you do that, you had this one that was at 20, you would throttle it back to 10, and you combined it with another one at 10, you're back to 20 megabits again. You didn't gain anything. Right? So it didn't really -- it didn't really them higher data rates. So did you invent a better solution at Aware? Yes, we did. Α. And what was that? Q. So Ed Reiter, Chris Cahill, and I, we came up with the idea that we could actually modify the way the transceivers work and make changes to them. In particular, we made change to a function which is called the interleaving function. You're going to hear about this function guite a bit in this case because it's a really important function inside DSL transceivers. We could modify the way the interleaving function worked so that there was a coordination between the interleaving function on these two devices, and even though the data rates were different, the data would still arrive at

- So did you pass your bonding solutions on to the ITU? Q.
- Yes, we did. Α.

- Do you recognize this document, Exhibit 119? 3
- This is -- this is the -- this is a contribution Α. Yes. 4
- that I made in Clearwater, Florida, in 2001. And this is 5
- 6 what's -- these are these technical contributions where you
- propose your idea. 7
- In this particular contribution, I was actually proposing 8
- to start the project to develop this technology because at 9
- this point bonding was not even standardized in the ITU. 10
- this was the proposal to start this G.bond project at the ITU. 11
- THE COURT: Let me interrupt for a minute. 12
- Mr. Tzannes, the question was, do you recognize this 13
- document. You said yes, and then you started telling us about 14
- Clearwater and then we went to contributions to the technical 15
- 16 stuff.
- 17 Let the lawyer ask the questions individually and answer
- them individually. 18
- THE WITNESS: I'm sorry. 19
- THE COURT: It's not an invitation to give a 2.0
- narrative. 2.1
- THE WITNESS: I'm sorry. 2.2
- THE COURT: No problem. Just want to make sure you 23
- understand how it's supposed to work. 24
- THE WITNESS: Yeah. I got a little excited, Your 25

- 1 Honor.
- THE COURT: Let's continue on that basis, Mr.
- 3 McAndrews.
- MR. McANDREWS: Thank you, Your Honor.
- Q. (BY MR. McANDREWS) So did the ITU accept this proposal?
- 6 A. Yes.
- 7 Q. Is it the only contribution you've submitted to the ITU?
- 8 A. No, it is not.
- 9 Q. And do other ITU members submit contributions?
- 10 A. Yes, they do.
- 11 Q. Okay. Are ITU contributions generally available to the
- 12 public?
- 13 A. No. They are available to ITU members.
- 14 Q. So what does it take to become an ITU member?
- 15 | A. Well, becoming an ITU member is a little complicated
- 16 | because it's an international body. So the first thing you
- 17 | need to do to become an ITU member is you actually need to get
- 18 permission from the U.S. State Department. Individuals can't
- 19 become ITU members. You have to be a company to become an ITU
- 20 member.
- 21 And then you have to actually -- you have to pay the
- 22 | annual membership fee, which is -- it's a Swiss organization.
- 23 | So it's 30,000 Swiss francs, which is about 32,000 U.S.
- 24 dollars per year.
- 25 | Q. So did the ITU give you a special role in the development

- 1 of the bonding standard?
- 2 A. Yes, they did.
- 3 Q. And what role is that?
- 4 A. I chaired the G.bond group for 10 years.
- 5 Q. And how long did it take to complete the bonding
- 6 standard?
- 7 A. This particular standard took about four-and-a-half
- 8 years.
- 9 Q. And did the standard include your patented technology?
- 10 A. Yes, it did.
- 11 Q. Was CommScope at the meeting where the bonding standard
- 12 was approved?
- 13 A. Yes, they were.
- 14 Q. Do you know whether your bonding invention is widely used
- 15 in DSL devices?
- 16 A. Yeah. In my experience, in my opinion, it is used on all
- 17 DSL devices.
- 18 MR. STEVENS: Objection, Your Honor. He said he
- 19 provided an opinion.
- 20 THE COURT: Do you have a response, Mr. McAndrews?
- 21 MR. McANDREWS: Your Honor, I can rephrase the
- 22 question.
- 23 THE COURT: All right. This is a fact witness.
- 24 | He's not an expert. He's not entitled to give opinions, and
- 25 he's not entitled to testify beyond his personal knowledge.

So rephrase your question that calls for his personal 1 knowledge. 2 MR. McANDREWS: Yes, Your Honor. 3 (BY MR. McANDREWS) Mr. Tzannes, do you have personal Q. 4 knowledge of whether your DSL bonding inventions are used in 5 6 DSL devices? Α. Yeah. 7 MR. STEVENS: Your Honor, same objection. 8 calls for opinion testimony. 9 THE COURT: I'll overrule that. He can answer that 10 11 question. THE WITNESS: In my personal experience, 12 these -- the bonding patents are used by the CommScope devices 13 because they are required for the bonding standard. 14 MR. STEVENS: Your Honor, I renew my objection. 15 16 Move to strike that. He's now offered an opinion about a 17 CommScope product. It's an infringement opinion. And, Your Honor, I can approach and explain that more if you'd like or I 18 can go through what we talked about at the pretrial conference 19 on this. 2.0 THE COURT: Well, the question called for bonding 2.1 with DSL devices. It didn't specify CommScope devices. 2.2 conditioned his answer upon his personal knowledge and 23 experience. 24 I'm going to sustain the objection to the extent he goes

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beyond what was asked and talks specifically about CommScope
devices, but the fact that he's prefaced his answer on his own
personal knowledge is perfectly fine.
     Let's do this. Restate the question, Mr. McAndrews.
          MR. McANDREWS: Yes, Your Honor.
     (BY MR. McANDREWS) So, Mr. Tzannes, do you know whether
devices that practice the bonding standard would use your
invention?
          MR. STEVENS: Your Honor, same objection.
approach? It might make it a little bit easier.
          THE COURT: Approach the bench, counsel.
          (The following was had outside the hearing of the
          jury.)
          MR. STEVENS: This is where in his deposition he was
asked whether he knew or had opinions about whether his
patents were adopted in the standard or standard essential
patents, and he was instructed not to answer as privileged.
So this is the part where not only do I believe it to be going
into expert testimony, but these are the questions for which
he was instructed not to answer at his deposition.
          THE COURT: What's your response to that, Mr.
McAndrews?
          MR. McANDREWS: Your Honor, if I may go grab a
notebook, I can show you where almost this exact question was
asked and it was answered.
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THE COURT: You may go get the notebook.
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               MR. McANDREWS:
                                Thank you.
 2
               THE COURT: And we'll wait on you.
 3
               MR. McANDREWS:
                               I apologize, Your Honor. I don't
 4
     have a copy to hand you, but I can provide this. So these are
 5
     questions by CommScope's attorney at Mr. Tzannes' deposition.
 6
     Some of the highlighting --
 7
               THE COURT: This is July 13, 2022, deposition.
 8
               MR. McANDREWS: That's correct.
 9
               THE COURT: This is page 131, Mr. Stevens, and 132
10
11
     just so you can follow along.
               MR. STEVENS:
                              Thank you.
12
               THE COURT: And you're referring me to the
13
     highlighted portions here, Mr. McAndrews?
14
               MR. McANDREWS: Yes, Your Honor.
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16
               THE COURT: I don't see him invoking or I don't see
17
     him responding to an invocation of the privilege here, but
     everything he says is conditioned upon it being his opinion.
18
          We addressed this topic in pretrial, and I thought I made
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     it clear he's certainly free to talk about what he knows of
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     his own personal knowledge, but he's not an expert under 702,
     he hasn't provided a report, and him giving opinion testimony
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     at trial is an unfair ambush to the Defendant.
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          I'm not going to let him give opinions. But what he
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     knows of his own personal knowledge, he can certainly testify
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I don't -- I mean, there's nothing in this section where
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     he's been asked a question and refused to answer it under
     privilege or been instructed not to answer it based on
 3
     privilege.
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               MR. STEVENS: May I show you a different section on
 5
 6
     that?
 7
               THE COURT: If you can refer me to something
     different.
 8
               MR. STEVENS: Here on page 42, and here he was asked
 9
     directly about standards.
10
11
               THE COURT: 42 of the same deposition?
               MR. McANDREWS: Yes, Your Honor.
12
               THE COURT: Let's turn back to it.
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               MR. STEVENS: And specifically, once you get there,
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     I'll direct you to line 6 through 10. I also have it where
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     he's been asked, Have you done any analysis or opinion whether
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     any products infringe, and he was instructed not to answer
     that question as well.
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               THE COURT: What's your response to this portion of
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     page 42 of the deposition where he clearly is instructed not
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     to answer?
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               MR. McANDREWS:
                                So, Your Honor, the context -- and
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     this was briefed, but the context here is the examiner, which
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     was Mr. Stevens at the time on behalf of Nokia, was in context
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     asking for the work product of Mr. Tzannes operating as a
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litigation consultant for TQ Delta.

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Later on, when Mr. Kline who was representing CommScope was asking similar questions but leaving out of it what was clearly intended to elicit work product information when he left that out of the question.

And that's why Mr. Tzannes was saying -- he didn't mean opinion in the sense of expert opinion; he meant, in my personal view, independent of the work I've done for TQ Delta. I know this because the product practices the standard, and I believe my patents to be standard essential, is what he was saying.

Here the questions were in the context -- uniformly context of what did you do for TQ Delta as a litigation consultant.

MR. STEVENS: And, Your Honor, I just strenuously disagree with what he just said. I'll read my question: Do you believe that any of the asserted patents in this case are essential to any ITU standard?

I did not ask him to divulge to me anything that he's told TQ Delta. I'm just asking if he had such an opinion. I didn't ask him if he'd done it in the context of a litigation consultant or any other context. This is just an open question and just a blanket objection instruction not to answer.

THE COURT: Well, separate and apart from the issue

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about him being instructed not to answer at deposition, it's no different in my view, Mr. McAndrews, if he says, in my personal opinion this is this way, than it is to say because I've conducted some test or I'm an expert or I know from experience it's this way. When he says, In my opinion, he is in effect saying, I don't know of my own personal knowledge, I am opining that this is this way, and whether the basis of that opinion is what he knows in his own mind or what he thinks or what test he has conducted or anything else, he's beyond his own personal experience when he says, I'm giving you my opinion. Where the opinion comes from doesn't change the fact that it's opinion and not personal experience. So I'm going to sustain the objection on the basis that it calls for opinion testimony. And I think that effectively at this juncture moots the issue about whether he was instructed or not instructed to answer the question. Now, I'm not telling you, Mr. Stevens, that curtails your right to examine this within the rules of procedure and evidence on cross-examination. All right? MR. STEVENS: Well, can I ask a question, if I could, Your Honor? I don't want to run afoul of your motions in limine about --THE COURT: If you have any concerns about running afoul of the Court's orders in limine, I suggest you approach

before you ask the question and get clarification. 1 MR. STEVENS: Thank you, Your Honor. THE COURT: I'm just trying to make it clear I'm not 3 trying to circumscribe your ability to cross-examine on this 4 5 issue. Thank you, Your Honor. 6 MR. STEVENS: THE COURT: But I'm going sustain the objection that 7 he's calling for testimony that's of an opinion nature from a 8 lay fact witness, at least as to this material. 9 Now, if you want to go forward, if you want to back up 10 and go around another direction, as long as this man doesn't 11 give opinion testimony and he testifies from what he knows of 12 his own personal experience, I think that's fine. 13 Perhaps he should have gotten his Ph.D. and been a 14 college professor because he's been lecturing up there for at 15 16 least an hour. And maybe that's just his natural way of 17 communicating, but it needs to be -- that's why I stopped him about launching in a narrative. We need to tighten up this 18 examination and make it specific questions and specific 19 2.0 answers. 2.1 MR. McANDREWS: May I ask a question, Your Honor? THE COURT: You may. 2.2 MR. McANDREWS: So can he say, because he would know 23 this personally because he both invented the subject matter 24

and was at the standards meeting where it was adopted, can he

say that I know my inventions are in the standard? 1 THE COURT: I think you can ask him, are your 2 inventions covered by the standard, and he can say yes or no. 3 And if you want to challenge him on whether he has any basis 4 5 of his own personal knowledge to know that, you can revisit on 6 cross-examination. But when he says, it's my opinion that this, or I think 7 this, or it seems to me, then he is getting beyond what he 8 actually knows. If you ask it as a yes or no question or as a 9 declaratory statement one way or the other, he will either say 10 I don't know or he'll answer it. 11 If he answers it and opposing counsel doesn't think he's 12 got a basis for it, he can review on cross, well, you really 13 don't know that because you didn't do this, you didn't know 14 this, he can address it fairly on cross-examination. 15 form of the question doesn't call for an opinion the way 16 17 you've tendered it. MR. McANDREWS: Understood. 18 THE COURT: Do we have other questions? 19 MR. STEVENS: If the question is going to be, does 2.0 2.1 one of your patented ideas appear in the standard, if that's what's being contemplated here, is that going to allow me on 2.2 cross-examine to elicit the fact that during his deposition he 23 was not willing to tell me anything he's done with all respect 24 to the testing and all of that?

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THE COURT: Let's see where the rest of the direct
       And if you have -- if you think a door's been opened to
cover something on cross, then I'm not going to stand in the
way of it if I agree with you. But you probably need to get
my reviews on it before you do it.
          MR. STEVENS: Understood.
                                     Thank you.
          THE COURT: Okay.
          MR. McANDREWS:
                          Thank you, Your Honor.
          (The following was had in the presence and hearing
          of the jury.)
          THE COURT: I apologize, ladies and gentlemen.
     Let's continue with the direct examination, counsel.
     (BY MR. McANDREWS) So on the slide, I have Exhibit 2.
Q.
It's what we've called the '686 Patent. Are you familiar with
Exhibit 2, Mr. Tzannes?
Α.
     Yes.
     And you have that patent here with you today?
     Yes. This is the -- the ribbon copy of this patent.
Α.
     So how do you think of the '686 Patent?
     I think of this as the truck roll patent.
     And what is a truck roll?
Ο.
     A truck roll is something that the telephone companies
Α.
call when they have to actually send a technician out to your
house to fix a problem, they have to roll a truck. And, you
know, if you complain about something, then they do what they
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call a truck roll.

- Q. Are truck rolls a problem in the industry?
- 3 A. Yeah. Truck rolls are not desirable at all because they
- are expensive; they require personnel; they require, you know,
- 5 trucks; and they take time because, you know, you complain and
- 6 then you have to schedule an appointment and generally
- 7 | everybody is, you know, annoyed with truck rolls.
- 8 Q. So how did the truck roll patent come about?
- 9 A. So the truck roll patent came about from the fact that
- 10 | we had learned from telephone companies that they were
- 11 experiencing these issues with noise that I mentioned before,
- 12 and in some cases the noise that was being caused by these
- 13 | various sources were getting so bad that the actual DSL
- 14 | service would stop working or would be really, really slow,
- 15 | and the customers were calling and complaining about it.
- 16 | Q. So how did the truck roll patent solve this problem?
- 17 A. Well, yeah, so when people complained, the truck roll
- 18 | would have to be rolled out, obviously. So we wanted to try
- 19 to find a way to avoid these truck rolls from happening. And
- 20 | I presented this problem to two engineers of mine who were in
- 21 | the group with me, Bob Pizzano and David Krinsky, and they
- 22 | came up with a new idea on how to solve that problem.
- 23 Q. And what did that involve?
- 24 | A. So what they realized is that they could modify the way
- 25 | these devices worked, the transceivers devices worked, and

- 1 | actually they could get it to where this -- the modem, as
- 2 | we're calling it, actually operated like a handheld device,
- 3 | almost like the one that the actual technician would bring
- 4 inside the home, and so that they could remotely gather all
- 5 this data without actually having to send the technician out
- 6 there to pick it up, and then the data would be sent back to
- 7 the central office for the technician to analyze.
- 8 Q. Did they fix any problems with sending the test
- 9 information back to the central office?
- 10 A. Yes, they did, because if you think about it, that was
- 11 | the problem to begin with--that communication line was really
- 12 | noisy. So now we're trying to send the data back over -- that
- 13 | communication over the phone line that is not working, and
- 14 | that was the problem that they had to solve.
- 15 Q. And how did they solve that problem?
- 16 | A. They came up with a new method of transmitting data over
- 17 | that channel that was -- or that phone line that was really
- 18 | noisy that was really, really robust. And by 'robust', you
- 19 know, it means that it was -- it could basically make it
- 20 | through the channel even if the noise was very, very high.
- 21 | Q. So did you pass the solution on to the ITU?
- 22 A. Yes, we did.
- 23 Q. Do you recognize this document? It's Exhibit 123 on the
- 24 screen.
- 25 A. Yes, I do.

- 1 Q. And what is it?
- $2 \mid A$. This is a contribution that I made to the ITU presenting
- 3 -- it's RN-043. It was presented in Red Bank, New Jersey, in
- 4 May of 2001, and it proposed to the ITU this truck roll
- 5 | solution problem that Bob Pizzano and Dave Krinsky came up
- 6 with.
- 7 Q. Did the ITU adopt the solution you presented?
- 8 A. They did. The ITU eventually adopted this, yes.
- 9 Q. Was CommScope at the meeting where the standard this went
- 10 into was approved?
- 11 A. Yes, they were there.
- 12 Q. On the screen here they have Exhibit 4, deinterleavers,
- 13 what we referred to as the '008 Patent. Are you an inventor
- 14 on this patent?
- 15 A. Yes, I am.
- 16 | Q. And do you have it here with you today?
- 17 A. Yes. This is the '008 patent.
- 18 | Q. And how do you think of the '008 Patent?
- 19 \mid A. I think of this patent as the phase scrambling patent.
- 20 Q. And what is phase scrambling?
- 21 A. Phase scrambling is something that is -- solves an
- 22 | important problem that arrives in multicarrier modulation.
- 23 Q. What is multicarrier modulation?
- 24 | A. So multicarrier modulation is a transmission technology
- 25 | that is really the best technology that's out there today. So

- cell phones, WiFi, DSL, they all use multicarrier, like many
- 2 carrier -- multicarrier technology.
- Q. Is there such a thing as single carrier modulation?
- 4 A. Yes, there is. Single carrier is the type of modulation
- 5 | that was used more in the past. So AM radio and FM radio and
- 6 broadcast TV over the air with the antennas, that is done with
- 7 | single carrier modulation.
- 8 | O. So is multicarrier better because it has more than one
- 9 | carrier signal?
- 10 A. Yes, it is. When you have many carriers like that, you
- 11 can actually send the signal at higher data rates and you can
- 12 | send over longer distances.
- 13 | Q. Are there any problems associated with multicarrier
- 14 modulation?
- 15 A. Yes, there are. You know, whenever you design something
- 16 | more complex, problems arise, and the biggest problem that
- 17 | arises in multicarrier, or one of the problems at least, is
- 18 | something known as the PAR problem. You'll hear this a
- 19 lot--P-A-R, PAR problem.
- 20 Q. And what does PAR stand for?
- 21 | A. PAR stands for peak to average power ratio.
- 22 Q. And what is the PAR problem you mentioned?
- 23 A. So this is a little difficult to explain, but the PAR --
- 24 | when you have a multicarrier system, it is not transmitting
- 25 one carrier; it's actually transmitting actually thousands of

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carriers. So imagine it's almost like having thousands of radio stations that are being transmitted and all of these are going over this tiny little -- tiny little phone line.

Now, there are instances where -- when you send all these wave forms, all these carriers, they will add up because they are on top of each other. They'll add up on top of each other in a coherent way such that a very large peak like a spike is created in the wave form. And when that spike, that peak happens, the actual equipment can't transmit large peaks and they chop it off. So the peak is chopped off, and that creates a bunch of problems.

It's kind -- I will explain an example when something like that would happen. It's almost like they have to be transmitting the same information. So an example would be like if all the AM radio stations were transmitting the exact same song, then that kind of peak could occur.

- Q. So does that sort of sending a multiple things happen in DSL?
- A. Yes, it does. That idea of sending many things that are the same happens in DSL transceivers during a phase called initialization. Initialization is when the transceiver first turns on and when it learns the environment, because the transceivers don't actually know -- they need to learn basically how far they are from the central office, the noise environment. So they're intelligent devices. In order to

learn these things, they need to send signals that actually 1 have this characteristic. And when they send those signals, 2 this PAR problem happens. 3 So did you develop a solution to this problem? 4 Q. Yes. I came up with a new type of phase scrambling, 5 6 and what this phase scrambling would do is it would actually modify, scramble, these carriers in such a way so that even 7 though they're transmitting the same information, the spike 8 didn't happen anymore. 9 Was phase --Ο. 10 THE COURT: Let me stop again. I want to make sure 11 the witness understands what the Court expects of him. 12 THE WITNESS: I'm sorry. 13 THE COURT: You just got a question, "Did you 14 develop a solution to this problem?" You said, "Yes," and 15 16 then without another question you said, I came up with a new 17 type of phase scrambling and this is how phase scrambling works. What should happen is, Did you come up with something? 18 Yes, I did. 19 What did you come up with? 2.0 2.1 I came up with phase scrambling. How does phase scrambling work? 2.2 Well, it works this way. 23 Discrete questions and discrete answers --24

I'm sorry.

THE WITNESS:

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THE COURT: -- not an invitation to give us a
 1
     lecture.
               Okay.
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               THE WITNESS: I understand.
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               THE COURT: I guarantee you, Mr. McAndrews will ask
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     as many questions as it takes to get the information across,
 5
     but you need to stop when you've answered his question and let
 6
     him ask the next one. Okay?
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                THE WITNESS: Okay. Sorry about that.
 8
               THE COURT: I just want to make sure you understand
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     because that's the way it works. As I've said in many other
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     trials, this is not a conversation on the street corner.
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                                                                 This
     is an examination under oath in federal court, and there are
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     specific rules as to how it should be done, and I want to make
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     sure we follow those rules. Okay?
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               THE WITNESS: Yes, sir.
15
16
               THE COURT: All right. Let's proceed.
17
               MR. McANDREWS: Thank you, Your Honor.
           (BY MR. McANDREWS) So was phase scrambling known as a
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     Q.
     general concept prior to your invention?
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          Yes.
2.0
     Α.
          And how was it known?
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     Ο.
          Phase scrambling was known as a general concept because
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     Α.
     others had used it, but they had not used it actually to solve
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     the problems that I was facing in this particular issue with
2.4
     DSL signals that were transmitting the same information.
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- So did your phase scrambling invention work in practice? 1 Q.
- Yes, it did. Α.
- Did you pass the solution on to the ITU? 3 Q.
- Yes. Α. 4
- Did the ITU adopt your solution? 5 Q.
- 6 Α. Yes, they did.
- Did they adopt it into any particular standards? 7
- They adopted it into the VDSL2 and the G.INP Α. 8
- standards. 9
- Was CommScope at the meeting -- or the meetings, I guess, 10
- 11 where G.INP and VDSL2 standards were approved.
- Yes, they were there. 12
- So on the screen I have Exhibit 6. It's what we refer to 13 Q.
- as the '835 Patent in this case. Are you an inventor on this 14
- patent? 15
- 16 Α. Yes, I am.
- 17 Do you have it here today?
- Yes, I do. 18 Α.
- And how do you think of the '835 Patent? 19
- I think of the '835 Patent as the DSL reboot patent. 2.0
- And what is DSL reboot? 2.1 0.
- So DSL reboot is something that occurs when a transceiver 2.2 Α.
- reboots itself. It's similar to what happens when you reboot 23
- a computer and it takes a long time to reboot, to start up 24
- It takes several minutes. again. 25

1 Q. So what was causing these DSL reboots?

- A. They were being caused by certain types of noise. This
- 3 is -- you know, the problem that I was saying earlier that
- 4 | would actually be so detrimental, that the actual DSL
- 5 | transceiver couldn't keep operating so it would actually have
- 6 to start up again and reboot.
- 7 Q. So what was your solution to the DSL reboot problem?
- 8 A. So what I figured out -- and actually I'm not the only
- 9 inventor on this -- sorry. I'm the only inventor on this one.
- 10 But what I figured out was that there was a way to
- 11 reconfigure the DSL transceiver, in particular, the forward
- 12 error correction and interleaving parameters while the
- 13 | transceiver was still operating. So normally you need to do
- 14 | that through a reboot, but I figured out a way to do that
- 15 | while it was still operating so we could actually address the
- 16 | noise changes, solve the problem without actually having to go
- 17 | through this lengthy reboot process.
- 18 Q. So were the concepts of interleaving and forward error
- 19 | correction known before your invention?
- 20 A. Yes, they were known.
- 21 | Q. Did you use them in a novel way here?
- 22 A. Yes. The -- I used them in a novel way, yes.
- 23 Q. And how so?
- 24 | A. Well, they had not been used, as I was saying earlier,
- 25 | to actually modify them in a DSL system to address this

- 1 specific DSL reboot issue.
- Q. So do you pass the solution on to the ITU?
- 3 A. Yes, I did.
- 4 Q. On the screen is Exhibit 121. Do you recognize this
- 5 document?
- 6 A. Yes.
- 7 Q. And what is it?
- 8 A. It is a proposal that I made to the ITU in Millbrae,
- 9 California, in 2004.
- 10 Q. And this describes the DSL reboot problem?
- 11 A. Yes, it does.
- 12 Q. Or your solution to the DSL reboot problem?
- 13 A. Yes, it does.
- 14 Q. Did the ITU adopt this solution you proposed?
- 15 A. Yes, they did.
- 16 Q. Into what standard?
- 17 A. They adopted it into the VDSL2 standard.
- 18 | Q. Was CommScope at the meeting where the VDSL2 standard was
- 19 approved?
- 20 A. Yes, they were there.
- 21 Q. So on the screen is Exhibit 5. It's what we referred to
- as the '048 Patent. Are you an inventor on this patent?
- 23 A. Yes, I am an inventor along with Michael Lund.
- 24 | Q. Do you have the patent here with you today?
- 25 A. Yes. Here is the ribbon copy.

- And how do you think of the '048 Patent? 1 Q.
- I think of this as the memory savings patent. Α.
- Did the memory savings patent solve any problems? 3 Q.
- Yes, it did. Α. 4
- And what were those? 5 Q.
- 6 Α. It solved -- the problem that the memory savings patent
- was solving was actually reducing the cost of -- of DSL 7
- In particular, we were looking at reducing the equipment. 8
- cost of the interleaver. 9
- And what was the solution? 10
- So what Michael Lund and I came up with was the idea of 11
- actually sharing the memory between the interleaving function. 12
- There is also a corresponding deinterleaving function. 13
- interleaving is for the transmitting, the deinterleaving is 14
- for the receiving. So we figured out that we could actually 15
- 16 dynamically share these memories between the two, and by doing
- 17 that, we could save memory.
- Did you invent the general concept of interleaving or 18
- deinterleaving? 19
- No. 2.0 Α.
- So what -- what does your invention solve here? 2.1
- It solves the way that interleaving and deinterleaving 2.2
- would work in a dynamic way. So previously they always would 23
- be static, these memories. They would be fixed allocation. 24
- And this now works in a way that's dynamic and shared between 25

- the two functions. 1
- So was this a good solution?
- It was a good solution, and we actually were able --3
- when we finally figured out how to get it to work, we were 4
- able to save half of the memory, which was significant. 5
- 6 Isn't this more complicated, though?
- It's more complicated to do, but it saves a lot of 7
- memory. 8
- So what challenges did you face in getting the memory 9
- sharing patent to work? 10
- So one of the challenges we faced is that in order for 11
- this sharing to work where the two functions are dynamically 12
- sharing, and we had to coordinate that between the two 13
- transceivers. We have two transceivers always here. There is 14
- one in the central office and one in the home. So we had to 15
- 16 actually design some new memory-sharing messages, and these
- 17 messages would be communicated between the transceivers. And
- that was the way that we could make sure that the whole system 18
- would work. 19
- Did your solution result in any savings for any 2.0
- 2.1 companies?
- Yeah. Like I said earlier, we -- we ended up saving 50 2.2 Α.
- percent of the memory. 23
- Did you pass this solution on to the ITU? 24 Q.
- Yes, we did. 25 Α.

- Did you pass the entirety of this solution, including the 1 memory-sharing aspect to the ITU? 2
- We passed the messages, the messaging protocol aspect, to 3 Α. the ITU. 4
 - Do you know whether the messaging aspects were adopted into the DSL standards?

MR. STEVENS: Your Honor, I object. The question is while the patent is being shown. There's an implication here he's talking about some idea in the patent. So if we're going to show the patent on the screen, I don't think he should be able to opine about that.

THE COURT: The question before the witness is, do you know whether the messaging aspects were adopted into the DSL standards. That's a straight-up question he either knows the answer to or he doesn't. And there's nothing wrong with the patent being on the screen when he asked it or answers it.

So I'm going to overrule your objection. You can revisit this on cross-examination, but this is a perfectly acceptable question if the witness has personal knowledge of how to answer it.

MR. STEVENS: Understood, Your Honor.

THE COURT: Do you want to restate the question, Mr.

McAndrews?

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MR. McANDREWS: Yes, Your Honor.

Q. (BY MR. McANDREWS) So do you know whether your

- memory-saving solution was adopted into the DSL standards? 1
- The messaging part of it was.
- Q. Thank you. 3
- So on the slide here, I have Exhibit 7. It's what we 4
- 5 refer to as the '411 Patent. Are you an inventor on this
- 6 patent, Mr. Tzannes?
- Yes, I am. 7 Α.
- Do you have it here with you today? 8
- This is the patent here today. 9 Α.
- And how do you think of the '411 Patent in this case? 10
- I think of this as the impulse noise patent. 11 Α.
- And what is impulse noise? 12 Q.
- Impulse noise is a type of noise that exists in DSL 13 Α.
- systems, and it's basically very short bursts of noise that is 14
- very high that destroys the DSL signal when it happens. 15
- 16 And what kind of problems does that create?
- 17 Well, the problem it creates is that it causes errors.
- So this is another example where you would notice in your home 18
- pixelation or low -- low data rates. 19
- So what kind of solution did you come up with? 2.0
- 2.1 So the solution was to actually use a retransmission
- scheme for inside the DSL transceiver. 2.2
- And how does your retransmission approach work? 23
- Can you just show the next slide? Maybe that will just 24 Α.
- help to give some context. 25

So normally when a -- when a packet is transmitted or something or an envelope, you can think of it as being transmitted between the two transceivers. Under normal conditions, it will get through. But when impulse noise happens, for example, lightning is an example of impulse noise, when lightning happens, it will basically destroy that envelope from getting through.

So the idea for retransmission is that when you -- when the central office site sends something, it keeps a copy of it, a copy of the letter, for example, inside the central office, and it sends it across to -- to your home. If it gets hit by impulse noise, the other side sends a message back and says, send me the letter again, basically.

And so then the letter is available and he sends it back. Because he's stored it in memory, again it sends it back to your home. And that's -- that's what retransmission is.

- Q. So did you invent the general concept of retransmission?
- No, I did not. Α.

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- What aspects of retransmission did you improve? 19
 - So the retransmission scheme that I worked on actually solves the specific problem for DSL systems and inside a DSL transceiver for transmitting data -- user data, which had not
- been done before. 23
- Were there parts of your invention that were challenging? 24 Q.
 - Α. One of the -- one of the parts of the invention

- that's challenging is that retransmission schemes like these, 1
- they start increasing the memory again. So we're -- you know, 2
- we have this problem where we're trying to decrease memory, 3
- but now the storage of the envelope, you have to store these 4
- 5 envelopes on both sides actually, both at the central office
- 6 and the CPU side.
- So while you're storing these envelopes or this data, you 7
- end up increasing the memory. And so as the data rates get 8
- very, very high, that storage becomes very, very large and 9
- it's expensive. 10
- Was there a cost benefit from your invention? 11
- Yes. So there was a cost benefit for my invention, yes. 12 Α.
- And about how much? Can you estimate the cost benefit? 13 Q.
- The benefit was, again, about 50 percent of the memory 14 Α.
- was saved. 15
- What aspects of this invention did you pass to the ITU? 16
- 17 Α. So what we passed to the ITU was the messaging required
- to actually coordinate what ended up being the sharing of 18
- memory. The way we saved the memory was by sharing this 19
- interleaver memory and retransmission memory together. By 2.0
- doing that, we saved memory, but it also required these new 2.1
- messages to be transmitted. 2.2
- I'm showing you Exhibit 120 on the screen. Do you 23
- recognize this exhibit, Mr. Tzannes? 24
- Α. Yes, I do. 25

- And what is it? 1 Q.
- This is a contribution that I made in Ghent, Belgium, in
- 2006. 3
- Did the ITU adopt the solution proposed in this -- in 4
- this contribution? 5
- This was a contribution to proposed user 6 Α. Yes.
- transmission for VDSL2, and it was adopted. 7
- So I'm showing on the screen Exhibit 8. It's what we've 8
- been referring to as the '354 Patent so far. Do you recognize 9
- this, Mr. Tzannes? 10
- 11 Α. Yes, I do.
- Are you an inventor on this patent? 12
- Α. Yes, I am. 13
- And do you have it here with you today? 14
- Yes. 15 Α.
- 16 And how do you think of the '354 Patent?
- 17 Α. I think of this as the ROC, or ROC patent.
- So what problem did you solve with the ROC patent? 18 Q.
- Well, this was one other problem that we discovered when 19
- we first started deploying DSL, was that actually your 2.0
- 2.1 neighbor's DSL was actually affecting your own DSL.
- So if you go to the next slide, maybe it will help. 2.2
- So what was happening is the signals were interfering 23
- from your neighbor's DSL into yours. So if -- and what in 24
- particular would happen is if your neighbor turned his DSL off 25

- at night and turned it back on again in the day, it would 1
- actually interfere with your service, and -- and in many cases 2
- your service would just stop working. So it was -- it was a 3
- big problem. 4
- 5 And at a high level, what was the solution?
- So I developed a new way to actually modify the way that 6
- the system was working so that was -- communication could 7
- continue by sending what's known as this ROC or ROC message 8
- back to the central office to actually reconfigure the line to 9
- work in the presence of this noise. 10
- So how did the ROC message work if there was this noise 11
- on the line? 12
- So in multicarrier systems, as you recall, there are 13
- thousands of carriers. And so what I realized we could do was 14
- we could take a small subset of those carriers and dedicate 15
- them to just send that particular signal. And we would take 16
- 17 those carriers, and we'd transmit them at a much lower data
- rate with a much higher margin, as it's known. And by doing 18
- that, you could actually get the signal through, get the 19
- message through even though the data rate -- even though the 2.0
- actual noise was there. 2.1
- So did you pass this solution on to the ITU? 2.2 Ο.
- Yes, I did. 23 Α.
- Did the ITU adopt your solution? 24
- Yes, they did. 25 Α.

- Into which standard did they adopt your solution? Q.
- They adopted it into the VDSL2 standard and the G.INP
- standard. 3

- And was CommScope there when the VDSL2 and G.INP 4 Q.
- standards were approved? 5
 - Α. Yes, they were.
- MR. McANDREWS: I pass the witness, Your Honor. 7
- THE COURT: All right. Before we proceed with 8
- cross-examination, we're going to take a short and probably 9
- our final recess of the day, ladies and gentlemen. 10
- 11 You can simply close your notebooks and leave them there
- in your chairs. I suggest you take this opportunity to 12
- stretch your legs, get a drink of water, and we'll be back 13
- shortly and continue with the cross-examination of Mr. Tzannes 14
- by the Defense counsel. 15
- So with that, the jury's excused for recess. 16
- 17 (Whereupon, the jury left the courtroom.)
- THE COURT: Mr. Stevens, what's your estimated time 18
- on your cross? 19
- MR. STEVENS: 45 minutes to an hour, Your Honor. 2.0
- 2.1 THE COURT: All right. And who is your next
- witness, Mr. Davis? 2.2
- Ms. Abha Divine, Your Honor. MR. DAVIS: 23
- THE COURT: What's your estimate on her direct? 24
- MR. DAVIS: 45 minutes, Your Honor, maybe an hour. 25

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THE COURT: All right. We'll do the best we can.
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     Let's keep this recess to about 10 minutes or less.
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          Court stands in recess.
 3
                             (Brief recess.)
 4
                THE COURT: Be seated, please.
 5
 6
          Are you prepared to proceed with cross examination,
     Mr. Stevens?
 7
                MR. STEVENS: I am, Your Honor.
 8
                THE COURT: All right. Let's bring in the jury,
 9
     please.
10
11
                (Whereupon, the jury entered the courtroom.)
                THE COURT: Please be seated.
12
          All right. We will proceed with cross examination of the
13
     witness by the Defendants.
14
          You may proceed, Mr. Stevens.
15
16
                MR. STEVENS: Thank you, Your Honor.
17
                             CROSS EXAMINATION
     BY MR. STEVENS:
18
          Good afternoon, Mr. Tzannes.
19
          Good afternoon.
2.0
     Α.
          I just want to touch on a couple of technical topics.
2.1
     DSL is not the only way to bring internet to your house.
2.2
     True?
23
          That's true.
24
     Α.
          There's other things, like cable modems. Is that
25
```

- 1 correct?
- 2 A. Yes.
- Q. There's other technologies like fiberoptic. Is that
- 4 right?
- 5 A. Yes.
- 6 Q. People could use a satellite. Is that true?
- 7 A. Yes.
- 8 Q. And people could use their cell phone or have a small
- 9 cell tower in their house. Is that right?
- 10 A. Yes, that's true.
- 11 Q. Okay. Now, when you said during your direct examination
- 12 that things like Netflix and Zoom come over DSL, how you get
- 13 Netflix or Zoom in your house is dependent upon what type of
- 14 | internet provider you have. Right? It's not exclusive to
- 15 DSL. Is that right?
- 16 A. That's true.
- 17 | Q. Okay. So I don't want anyone to be left with a
- 18 | misimpression that if you ever watched a show on Netflix or
- 19 | you've ever had a Zoom meeting, that you you're necessarily
- 20 using DSL?
- THE COURT: Just a minute, Mr. Stevens. What you
- 22 | don't want the jury to be left with the impression is not a
- 23 question. You're not here to make sidebar comments to the
- 24 | jury; you're here to ask this witness questions. So ask him
- 25 | a question, but don't make a statement unless you want to

- 1 testify.
- MR. STEVENS: Understood, Your Honor. Thank you.
- 3 THE COURT: All right. Let's proceed.
- Q. (BY MR. STEVENS) So Netflix and Zoom, just because I'm
- 5 using those does not mean I'm using DSL. Is that correct?
- 6 A. That's true.
- 7 Q. And to the typical American consumer nowadays, if you
- 8 have a cable modem it's probably going to be faster than DSL.
- 9 Is that true?
- 10 A. I don't know. Not necessarily.
- 11 | Q. And if you have a fiberoptic communication to your house
- 12 today, it's probably going to be faster than DSL. Is that
- 13 true?
- 14 A. Fiberoptic probably will be faster.
- 15 Q. What do you have to your house?
- 16 | A. I have -- well, my current house I have a cable modem.
- 17 | Q. Okay. I just want to put up just real quickly slide 3
- 18 | from your presentation, PDX.Tzannes.3 here.
- 19 | Sir, I believe that you told the jury that this is
- 20 | showing a, quote, standard old phone line. That's not what
- 21 | we're seeing on this slide. True?
- 22 A. Oh, yeah. I guess -- yeah, that's a -- not quite correct
- 23 as far as the number of pairs. Is that what you're getting
- 24 at?
- 25 Q. That's an ethernet cable. Right?

- 1 A. Yeah.
- Q. This would take -- whether you have cable or fiberoptic,
- 3 | that would take it from the modem to your computer or some
- 4 other device. Right?
- 5 A. Yeah. This was a graphic, yeah.
- 6 | Q. Okay.
- 7 MR. STEVENS: We can take that down.
- 8 Q. (BY MR. STEVENS) Let's talk a little bit about
- 9 | standardization, and I'd like to talk about the ITU and
- 10 the standardization process. Is that okay, sir?
- 11 A. Yes.
- 12 Q. Great. The ITU's members include hundreds of companies
- 13 | from over -- hundreds of companies from over 100 countries.
- 14 True?
- 15 A. Yes, that's true.
- 16 Q. Okay. And there's over 20,000 engineers active at the
- 17 | ITU. Is that right?
- 18 | A. I don't know the number, but I'm sure that's probably
- 19 | close, yes.
- 20 Q. Okay. And the ITU, it's not just corporations;
- 21 | universities can be members, if they like. Is that true?
- 22 A. I think -- yeah, I think they have a membership class for
- 23 universities, yep.
- 24 | Q. And research organizations can be members. Is that
- 25 | right?

- 1 A. Yeah, of course.
- 2 Q. And, as you said, even countries, government
- 3 organizations can be members. That's also true. Right?
- 4 A. Yes.
- 5 | Q. So you don't -- it's not strictly limited to
- 6 | corporations. That would be incorrect if someone were to
- 7 | say that. Fair?
- 8 A. Yes.
- 9 Q. Okay. And we talked about the ITU. It's part of a
- 10 charter of the United Nations, and so people from other
- 11 | countries join it as well. Is that right?
- 12 A. That's correct.
- Q. And the U.S. State Department doesn't have to approve who
- 14 | joins the ITU from other countries. Is that right?
- 15 A. Yeah, not the U.S. State Department. Every country has
- 16 | their own rules on how you can join the ITU.
- 17 | Q. So it would be incorrect if someone were to state that
- 18 | the State Department of the U.S. must approve you before you
- 19 can be an ITU member. That would be incorrect. Is that
- 20 right?
- 21 A. Well, I was speaking for U.S. companies, but yeah, if
- 22 | you're outside the U.S. you would not need to do that.
- 23 Q. And so when a standard comes out of the ITU, that's the
- 24 | work of a whole bunch of different companies. Correct?
- 25 A. Yes.

- 1 Q. And when you vote on a standard, that's something --
- 2 some people call it to ratify the standard or the ratification
- 3 process. Do I have that right, sir?
- 4 A. That's not the right term, but that's okay, yeah.
- Q. What would you prefer I say instead of 'ratify'?
- 6 A. 'Approve'.
- 7 Q. 'Approve'. Okay. Now, before someone were to approve a
- 8 | standard, all of the ITU members have access to that to know
- 9 what they're approving. Is that fair?
- 10 A. Do you mean -- I just want to make sure I understand what
- 11 | you mean. You mean -- there's different phases of the
- 12 | approval At what phase are you talking about?
- 13 | Q. Well, if someone's going to approve something, they have
- 14 to see it first. Is that fair?
- 15 A. Yes, yes.
- 16 | Q. Okay. So if some document or standard is going to be put
- 17 | up for voting or for the approval process, that's circulated
- 18 to the ITC membership. Correct?
- 19 A. The ITU membership, yes.
- 20 Q. I beg your pardon. ITU membership. Thank you.
- 21 A. Yes.
- 22 | Q. So if we look at your slide 9, you put up three different
- 23 | standards here. Let's just peek at that real quick.
- 24 PDX.Tzannes.9.
- So on the left we see a standard, and that would have

- been adopted in December of 2011. Do I see that, sir? 1
- Yeah, sometimes these dates -- right. So I believe 2
- that's the date when it was approved. 3
- Okay. So by this date, when we see this approval date 4 Q.
- right -- there's the G. some number, there's a parentheses, 5
- 6 and then there's a month and a year. Do you see that, sir?
- Α. 7 Yes.
- Sand so when we see that, that's when this standard was 8
- approved by the ITU membership. Is that correct? 9
- That's correct. Α. 10
- And so all the members of the ITU had access to these 11
- documents before that point in time. Is that right? 12
- They had access to -- yes. I mean, they had access to 13 Α.
- the draft prior to approval. That's right. 14
- And I think -- if I heard you right, I think you said 15
- 16 that, quote, all companies that are interested in DSL were
- 17 part of the ITU at the time. Is that right?
- I said the companies that are interested in DSL 18
- standards, I think I said. 19
- Okay. So when somebody makes a contribution at the ITU, 2.0 Ο.
- or when the ITU has a draft or a final recommendation, that is 2.1
- disseminated or otherwise made available to all the persons 2.2
- interested in that technology. Is that correct? 23
- I'm sorry. It was kind of a long question. Could you 24 Α.
- repeat it? I just want to make sure I heard it right. 25

- 1 Q. Sure. For example, when someone submits a contribution
- 2 to the ITU, that is either disseminated or otherwise made
- available to the membership of the ITU. Correct?
- 4 | A. Sort of. I mean -- sort of available. It's not
- 5 available -- during the interim meetings, present
- 6 | contributions are made, and they're not -- they don't end up
- 7 at the plenary meetings right away, which is the big meetings.
- 8 | So, I mean, let's say -- that's close enough, I'd say. Okay.
- 9 Q. Okay. So when you made a contribution --
- 10 A. Right.
- 11 Q. -- and then you went to a meeting, you'd get an agenda
- 12 beforehand. Isn't that correct?
- 13 A. That's correct.
- 14 Q. And that agenda would often have links. If you wanted to
- download everyone else's contributions you could do that. Is
- 16 | that right?
- 17 A. That's correct, yes.
- 18 \mid Q. And that was circulated among the membership of the ITU.
- 19 Is that fair?
- 20 A. Yes.
- 21 MR. STEVENS: Okay. So if we can pull up Exhibit
- 22 119.
- 23 Q. (BY MR. STEVENS) And this is one of the documents that
- 24 | you brought up during your direct testimony.
- So, for example, here, this is something you submitted in

- advance of a meeting in December of 2001. Correct? 1
- Α. Yes.
- Okay. And so the membership of the ITU would have had 3
- access to this document when you submitted it before you 4
- actually talked about it here in Clearwater, Florida. Is that 5
- 6 right?
- Yes. It depends on when the document was actually 7
- uploaded, so, you know, usually a week before, depending on 8
- when you upload the document, then it would become available. 9
- Okay. Whether it was a day before or a week before, the 10
- 11 document, sir, would be available before the meeting. Is that
- correct? 12
- It depended -- I mean, it seems like it's important the 13
- date. It kind of depended on the type of meeting. So in this 14
- kind of a meeting, typically the deadlines for submitting 15
- them -- I think they changed over time. It could have been 16
- 17 the Thursday before or the Tuesday before. I don't remember
- the exact dates. 18
- Okay. Thank you, sir. 0. 19
- And while we're here, this is one of the contributions 2.0
- 2.1 that you talked about during your direct testimony. Do you
- remember that, sir? 2.2
- Yes, it is. Α. 23
- And you jointly made this along with AMD. Is that right? 24
- That's correct. 25 Α.

- And here you are proposing to start a new project. 1
- is the G.bond one you are proposing to start a new project.
- Is that right? 3
- Yes. Α. 4
- 5 This technical contribution doesn't include any alleged
- solution to any bonding problem. Is that right? 6
- That's correct. 7 Α.
- And G.bond you said was the work of hundreds of engineers 8
- over four and a half years. Is that right, sir? 9
- Α. No. 10
- Took you four and a half years to standardize G.bond. Ιs 11
- that right? 12
- That's correct. Α. 13
- And many other companies made contributions over those 14
- four and a half years. True? 15
- 16 There was a handful of companies that made contributions.
- 17 Okay. It wasn't all Aware. There were other companies
- that were at the table for G.bond that were also coming up 18
- with other contributions and ideas. Right? 19
- Yeah, that's correct. 2.0
- 2.1 MR. STEVENS: Okay. We can take that down.
- (BY MR. STEVENS) So let's talk about the standards 2.2
- themselves. You, sir, were aware you didn't invent DSL. 23
- True? 24
- No, of course not. 25 Α.

- 1 Q. Okay. You didn't invent something called ADSL, one of
- 2 | the specific flavors. You didn't invent that. Is that right?
- 3 A. You mean the entire ADSL technology?
- 4 Q. Sure.
- 5 A. No.
- 6 Q. You didn't invent VDSL. Is that true?
- 7 A. No.
- 8 Q. To go into an entire standard, there's literally
- 9 thousands of ideas that are submitted by different companies.
- 10 | Is that right?
- 11 A. No, that's not right.
- 12 Q. It's not right that to come up with VDSL there were
- 13 | thousands of ideas that had to go into that?
- 14 A. I wouldn't call them ideas. Thousands of companies don't
- 15 | submit ideas. I mean, there's -- that's not the way it works.
- 16 Q. I didn't say thousands of companies, sir. It might not
- 17 | have been that many number of companies, but a lot of
- 18 | different people contributed a lot of different ideas or
- 19 | proposals in coming up with VDSL. Is that right?
- 20 A. Yes, that's right. I was just -- okay. Yes.
- 21 | Q. And there were some other things that you talked about
- 22 | with your counsel during direct examination. I just want to
- 23 | make sure that I heard you right, so I want to go through some
- 24 | concepts and I want to make sure that I heard you right that
- 25 | these are not concepts that you invented. Do you understand

- my question so far? 1
- Α. Yes.
- Okay. I heard you talk about retransmission. That's not 3 Q.
- something that you invented. True? 4
- Yes. I said that. 5 Α.
- 6 Okay. And you talked about an interleaver or a
- deinterleaver. Again, not something you invented. Is that 7
- right? 8
- Yes. I said that. Α. 9
- Shared memory. Not something that you invented. Is that 10
- 11 right?
- You mean the general concept of shared memory? 12
- Yeah, sharing memory. 13 Q.
- Yeah. The general concept, no. 14 Α.
- Forward error correction. Again, that's not something 15
- you invented. Correct? 16
- 17 Α. That's correct.
- Bonding. That's not something you invented. Correct? 18 Q.
- That's correct. Α. 19
- Phase scrambling. That's also not something that you 2.0 Q.
- 2.1 invented. Is that right?
- Well, I explained a specific type of phase scrambling 2.2 Α.
- that I invented. 23
- Sir, my question was did you invent phrase 24
- scrambling--yes or no. 25

- 1 A. Again, the general concept, no.
- 2 Q. Okay. So phase scrambling was a known concept in
- 3 telecommunications before you went to the Patent Office with
- 4 | the ideas that you talk about in the '008 Patent. Is that
- 5 true?
- 6 A. Yes.
- 7 Q. Okay. Testing for idle channel noise. That's not
- 8 | something you invented. Is that correct?
- 9 A. Yes.
- 10 Q. Okay. So before we leave the standards, if I heard you
- 11 | right on your direct, you talked about three different
- 12 | standards--VDSL, G.bond and G.INP. Is that right?
- 13 A. That's right.
- 14 Q. So we are not here this week to talk about ADSL. Is that
- 15 fair?
- 16 A. That's right.
- 17 | Q. Okay. And then just to make sure that we're not confused
- 18 | between VDSL1 and VDSL2, none of the patents that we're here
- 19 | to talk about have anything to do with VDSL1. Is that right?
- 20 I'll withdraw and ask a different question.
- 21 A. Yes.
- 22 Q. VDSL1 wasn't commercialized. It wasn't widely adopted.
- 23 | Is that fair?
- 24 A. That's fair.
- 25 | Q. Okay. So when we hear about VDSL, that's generally a

- reference to VDSL2 as opposed to 1. Is that fair? 1
- Α. Yes.
- Okay. And products -- you're not aware of any products 3
- that are backwards compatible with VDSL1. Is that fair? 4
- That's true. 5 Α.
- 6 Okay. Now, when Aware, your prior company -- again,
- Aware and TQ Delta, two completely different entities. Do I 7
- have that right, sir? 8
- Α. Yes. 9
- Aware is a company even today. Is that right? 10
- 11 Α. Yes.
- You can buy stock. It's a publicly-traded company. 12
- that right? 13
- Yes. Α. 14
- Okay. Now, when Aware was contributing to the ITU, Aware 15
- 16 made promises to license any patents related to the standards.
- 17 Is that right?
- Yes. Aware made this FRAND license we have been talking 18
- about. 19
- Okay. And you walked through some of those on your 2.0
- 2.1 direct testimony. Did I see that right, sir?
- Α. Yes. I showed the forms. 2.2
- Okay. Now, you will agree with me that when Aware makes 23
- that declaration, nobody at the ITU confirms that that's, in 24
- fact, correct. Is that right? 25

- That's correct. 1 Α.
- In fact, the ITU explicitly says that it does not decide 2
- whether any of any company's patents are actually essential to 3
- the standard. Is that true? 4
- That's true. Α. 5
- Okay. So just because you make a declaration doesn't 6
- make it so. Do we agree with that? 7
- Doesn't make what so? 8 Α.
- Just because you make a declaration at the ITU that you 9
- believe you may have patents that relate to the standard, that 10
- 11 doesn't necessarily make it so. Is that right?
- Yes, that's true. 12
- Okay. And again, when Aware made these commitments to 13 Q.
- the ITU, they agreed to license the patents on a 14
- non-discriminatory basis and on reasonable terms. 15
- 16 right, sir?
- 17 Α. Yes, it is.
- Okay. And we've heard this before, but just to make 18
- sure, sometimes that's called a RAND or a FRAND commitment. 19
- You've heard those terms before, sir? 2.0
- Yes, I have. 2.1 Α.
- Okay. Now, I want to talk a little bit about the 2.2
- business of Aware. Is that okay? And that was your former 23
- company. You're not with them anymore today. Is that right? 24
- That's right. 25 Α.

- 2 | semiconductor chip designs. Do I have that right?
- 3 A. Yes.
- Q. Okay. And in the DSL space, Aware's customers were
- 5 semiconductor chip companies. Is that true?
- 6 A. That's true.
- 7 Q. You rattled off four or five names during your direct
- 8 testimony. Every single one of those is a chip maker. Is
- 9 | that right?
- 10 A. Yes.
- 11 Q. And what those semiconductor companies do is they
- 12 | manufacture or fabricate chips. Right?
- 13 A. That's true.
- 14 Q. And one of your jobs I believe was to create some of the
- 15 | software or algorithms that would be used on that chipset. Is
- 16 | that right?
- 17 A. Yes.
- 18 | Q. Okay. So the hardware you were doing, the software you
- 19 | are doing, that was all for the chipset. Correct?
- 20 A. Yes.
- 21 | Q. Now, ultimately Aware got out of the DSL business and
- 22 | sold it off. Is that right?
- 23 A. Yes.
- 24 | Q. And was -- you had mentioned that when you joined Aware
- 25 | it was a small company. When did it go public?

- 1 A. In 1996.
- Q. Okay. So you joined around '92. Do I have that right?
- 3 A. Yeah.
- Q. But it was a public company from when you were there from
- 5 | 1996 until 2012. Is that right?
- 6 A. Yes.
- 7 Q. Okay. Now, again, ultimately Aware made the business
- 8 decision to get out of the DSL business. Is that true?
- 9 A. Yes.
- 10 Q. And as part of that, Aware sold off a bunch of patents to
- 11 | several different companies. Is that right?
- 12 A. Yes.
- 13 Q. They didn't all go to TQ Delta; some of them went to
- 14 other companies. Is that true?
- 15 A. Yes.
- 16 Q. And, in fact, you were involved in Aware's effort to try
- 17 | to shop or to sell off its patent portfolio. Is that right?
- 18 A. Yes.
- MR. STEVENS: If we could pull up Exhibit 81, the
- 20 | first page, please.
- Q. (BY MR. STEVENS) This is one of the documents that you
- 22 and a couple of other folks created in order to -- again, to
- 23 | shop or to sell the patents. Do I have that right?
- 24 A. Yes.
- 25 | Q. In fact, that's your name there, the third name listed on

- 1 that cover page.
- 2 A. Yes.
- Q. And the one above, it's your brother?
- 4 A. Yes.
- 5 MR. STEVENS: All right. I'd like to pull up page
- 6 | 114 of this exhibit, please.
- 7 Q. (BY MR. STEVENS) And this is -- again, this is one of
- 8 | the slides in the slide deck you presented. Is that right?
- 9 A. Say that again.
- 10 Q. This is one of the slides in the presentation deck that
- 11 | you created. Is that right?
- 12 A. I just want to clarify that I actually didn't create
- 13 | these slides. I was part of the technical slides, so this is
- 14 more on the business side of things.
- 15 Q. Okay. Well, one of the things that you did when you
- 16 | created this presentation was you told the world that there's
- 17 | already, quote, DSL portfolio encumbrances. Did I read that
- 18 right, sir?
- 19 A. That's what it says there, yes.
- 20 | Q. And what that means is Aware had already licensed the
- 21 patents. Is that true?
- 22 A. Well, what it says there is there were two active
- 23 licenses.
- 24 | Q. And one of those was to a company called Lantiq. Is that
- 25 | right?

- 1 Α. Yes.
- And if we go down to the bottom, you also say in this 2
- slide there's a FRAND license obligation. Do I see that 3
- right? 4
- Yes, that's what it says. 5
- 6 And below that it says, "Participated in ITU DSL
- standards setting body FRAND obligation." Do I read that 7
- right? 8
- Yes, that's what it says. 9
- And this is, again, a presentation that you shared with 10
- several companies, including TQ Delta. Is that right? 11
- Α. Yes. 12
- And again, what FRAND means is fair, reasonable, and 13 Q.
- non-discriminatory, just like Judge Gilstrap told us a little 14
- bit earlier. Is that right? 15
- 16 Α. Yes.
- 17 So you were telling -- anyone who was interested in the
- patents, you were telling them that Aware had committed to 18
- license these patents on these FRAND terms. Is that right? 19
- Yes. 2.0 Α.
- 2.1 And that obligation would follow with the transfer of the
- patents to a new owner. Is that right? 2.2
- That's correct. Α. 23
- Okay. Now, after Aware sold off the DSL business and 24
- sold its patents, you left the company. Is that correct? 25

- 1 Α. Yes.
- Now, you were compensated while you were with Aware. Is
- that fair? 3
- Yeah, of course. Α. 4
- And you were compensated relating to your work on 5
- 6 patents. Is that true?
- Well, my work at Aware was working a lot with patents, so 7
- yeah, I was compensated. I had a salary at Aware. 8
- Okay. All right. You told me you had a salary at Aware. 9
- Right? You were compensated or received a bonus every time 10
- you filed a patent or had a patent issued. Is that right? 11
- That's true, yes. 12
- And then when the patents were being sold off, you got a 13 Q.
- commission for selling the patents. Is that right? 14
- That occurred in one case. It was one case; not for the 15
- 16 TQ Delta portfolio or for any -- it was for one specific in
- 17 the past. That happened one time, yes.
- Okay. So salary, bonus with every patent, and a 18
- commission for one of the sales of the patents. Do I have 19
- that right? 2.0
- 2.1 Α. Yes.
- And then when you left Aware, you cashed in your stock 2.2
- options and you got over a million dollars as you walked away. 23
- Is that right? 24
- I mean, part of the compensation at a small company is 25

1 stock options, so yes, I -- when I left I sold them.

- Q. Okay. So you got compensated four different ways
- 3 relating to these patents. Is that right?
- 4 A. Yes, that's true.
- Q. Okay. Now, after you left Aware, you and your brother
- 6 | Michael formed Tzannes Patent Management. Do I have that
- 7 | right, sir?
- 8 A. Yes.
- 9 Q. And that was in or around August of 2012.
- 10 A. That's right, yeah.
- 11 Q. And Tzannes Patent Management started to work with
- 12 TQ Delta, you know, pretty much right after you formed it.
- 13 | Is that right?
- 14 A. Yes.
- 15 | Q. And that's been by far your biggest client over the past
- 16 | decade. Do I have that right?
- 17 A. Yes.
- 18 Q. Now, you talked about different roles you had with the
- 19 | company, and one of the things that you said on your direct
- 20 | examination was that you've been a litigation consultant for
- 21 | them for over 10 years. Is that right?
- 22 A. Yes, I've helped them with all the licensing efforts,
- 23 including litigation.
- 24 MR. STEVENS: Your Honor, might I approach for a
- 25 moment?

THE COURT: You may. 1 (The following was had outside the hearing of the jury.) 3 MR. STEVENS: So --4 THE COURT: Just wait until we get opposing counsel 5 6 up here. All right. What is it, Mr. Stevens? 7 I wanted to ask Your Honor if I can MR. STEVENS: 8 ask questions about his work as a litigation consultant where 9 he was instructed not to answer at his deposition -- he 10 wouldn't tell me the work he was doing with TQ Delta over the 11 past 10 years on that front. I think the questions during 12 direct elicited that testimony and opened the door. 13 THE COURT: Well, I'm not personally or intimately 14 familiar with what you tried to ask him in deposition, and I 15 16 haven't reviewed his deposition in advance of this trial, so 17 to the extent you can be precise about what you're wanting to go into, it would be helpful. 18 MR. STEVENS: I can show you my questions, Your 19 It's the ones I have put a box around with my pen. 2.0 2.1 This is from his deposition. THE COURT: Let me ask you, Mr. McAndrews, do you 2.2 have a response to -- or an objection to what Mr. Stevens has 23 just raised with me? 2.4 MR. McANDREWS: I do. So clearly this question here 25

2.0

2.1

2.2

2.4

he's asking about his work as a litigation consultant. This was the problem we had with the questions, the way he was asking these. In context and you can see right here in particular he wants to know about Mr. Tzannes' role as litigation consultant, what he did at the direction of counsel, what he told his lawyers as TQ Delta's lawyers representing TQ Delta and Mr. Tzannes during the course of this litigation.

If he wants to ask him about things that are not done at the direction of counsel or -- and he's going to leave out what Mr. Tzannes was telling his lawyers and what his lawyers were telling him, he's free to do that, but these questions clearly are attempting to elicit work product and privileged information.

MR. STEVENS: So here's the issue I have, Your

Honor. He's come up and told a big story, and I'm not allowed

to know whether this story has changed over the past 10 years,

either in light of hearing what TQ Delta wants to say or how

it was told when he first came with TQ Delta.

I'm not asking about attorney/client privilege information; I'm simply asking these questions, What did you tell TQ Delta about these patents after they hired you, and they were uniformly instructed not to answer those questions. And this is just two examples. It goes on and on.

THE COURT: Let me ask you this, Mr. Stevens.

Assume for purposes of discussion that I allow you to ask 1 these questions, and assume for purposes of discussion 2 Mr. Tzannes answers those questions. Are you then going to 3 be up here again asking me to let you show the jury that 4 5 previously he didn't answer those questions based on 6 instructions from counsel? MR. STEVENS: Yes. In fact, that's the question I'm 7 going to ask him. I'll say, When I tried to ask you the same 8 questions that your counsel did just a few minutes ago, at 9 your deposition you were uniformly -- you would not tell me 10 the same information. 11 THE COURT: Well, I'll allow you to ask the 12 questions you want to ask. If Mr. McAndrews, based on the 13 questions you ask, objects based on privilege, then I'll hear 14 that objection. If either I overrule that objection or he 15 16 doesn't object, if you ask the question and he gives a 17 substantive answer, I do not intend to let you then go back simply for effect and try to show the jury that you didn't get 18 an answer earlier. 19 If you want to elicit the information and you get the 2.0 information, then I think that's all you're entitled to. 2.1 This seems to me as if you're trying to create an opportunity 2.2 to prejudice the Plaintiff by what happened in this 23

Now, if you ask the question and there's an objection

deposition.

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that I sustain or -- we'll just have to see where that goes. But if you ask the question and you get an answer from this witness and it's something that his counsel instructed him not to answer on deposition, you've gotten your answer and you're not going to come back and prejudice this witness after you've already gotten the material you asked for because previously in the deposition you didn't get it. MR. STEVENS: Let me clarify the question I would intend to ask, because it might be different than you expect. THE COURT: That's why we're up here--to try to get it straight. MR. STEVENS: I would ask him, When I inquired about the subject matter, you refused to tell me the answer at your deposition. That would be the question I would ask. I don't have to say it was privileged, but you would not provide me that information. THE COURT: You're entitled to ask him for information. You're entitled to see what answer you get. If he doesn't answer or if he's instructed not to answer, that may or may not open the door to what happened in his deposition. But you're not going to go up there and say, On your deposition I asked you X and you refused to answer me, didn't you. MR. STEVENS: Okay. THE COURT: If you want to ask him what is X and he

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gives you an answer, then you're not going to then say, Well, at your deposition you refused to answer what is X. MR. STEVENS: Okay. THE COURT: We're talking about the substance here versus the form, and it seems to me your intent on showing the jury that the form of this exchange during the deposition was he refused to answer a question or he was instructed not to answer a question. MR. STEVENS: The thrust of what I'm trying to get at is that this was information that he was -- that he did not provide me, for whatever reason, when he was asked at his deposition. Yes, Your Honor, that is the thrust of the question. If you're telling me that that's okay, I'll do it. If you tell me it's not okay, I won't do it. THE COURT: I'm telling you that for the purpose of showing you didn't get it at the deposition and ignoring the desire to get substantive information is not okay. If you want to ask him for the same information substantively and he answers you, then you've gotten an answer to your question and you're not going to then go back and say, Well that's not what you did at your deposition. MR. STEVENS: Understood. THE COURT: Is that clear? MR. STEVENS: It is clear now. Thank you. MR. McANDREWS: Your Honor, if I may?

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THE COURT: Now, if he asks the same question in the same way, you're going to have to decide whether you want to stand up and object to it based on privilege or not. MR. McANDREWS: Your Honor, it sounds like that's exactly what he's intending to have happen here, and it's going to create the exact sort of privilege that your standing motion in limine order prevents -- that he is not supposed to be asking a question that is going to elicit a privilege objection because it makes it appear that we're hiding something. THE COURT: Let me see that sheet again. MR. STEVENS: There are several pages, Your Honor. Feel free to flip through them. THE COURT: Let's just take the first one for The question is, "Do you believe that any of the asserted patents in this case are essential to the ITU standard?" That on its face is not privileged. MR. McANDREWS: I agree he can ask that question. THE COURT: You told me repeatedly that the reason he was instructed at deposition not to answer it was because in the context of the examination you believed it invaded the privilege. We're not in the context of the examination. are talking about targeted individual questions. He can ask that. MR. McANDREWS: I agree, Your Honor.

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THE COURT: And if the witness answers it, he's not then going to say, But at your deposition I asked you that and you wouldn't tell me or you were instructed not to. get an answer, whether he says yes, I do believe it, or, No, I don't, you've gotten an answer. Are we straight on that? MR. McANDREWS: Yes, Your Honor. MR. STEVENS: Now I have a question. Can I inquire with a him whether he's had the opportunity in the past decade as a litigation consultant to have these conversations with TO Delta? THE COURT: To have what conversations? MR. STEVENS: To have conversations about essentiality or infringement or what the patents are about. HAS he had -- in the past 10 years has he informed TQ Delta about these things. THE COURT: Well, let's put it this way. I'm not going to permit you to intentionally ask a question that you are convinced in advance of asking it is going to draw an objection that it's privileged. I don't want to have a privilege fight in front of this jury. Okay? MR. STEVENS: I think I know --THE COURT: If you want real substantive information that doesn't call for privileged communications, then ask the question, and if he doesn't answer it or if counsel objects and refuses to let him answer it, then that may open the door

to what you want to do, but you can't open the door yourself. 1 MR. STEVENS: I understand. 2 THE COURT: Do we have anymore concerns about where 3 we're headed? Everybody clear? 4 MR. McANDREWS: So it sounded like when we first 5 6 came up here he wanted to know if Mr. Tzannes has changed his story. What Mr. Tzannes put in the slide deck before TQ Delta 7 acquired the patent portfolio, that's fine; he was not a 8 litigation consultant to TQ Delta. In fact, he was in the 9 seller's role. Right? We never claimed privilege. That's 10 why he has the slide deck that has claim charts in it. 11 THE COURT: I understand. 12 MR. McANDREWS: But if he wants to attempt to 13 inquire into what Mr. Tzannes did since being hired by TQ 14 Delta as a litigation consultant, then remember he was 15 16 involved in litigation going back all the way to early 2013 on 17 behalf of TQ Delta, back when CommScope's affiliate was first pursued to Delaware. 18 It sounded like what he wanted to say is has he changed 19 his story through the years as a litigation consultant. That 2.0 2.1 would be improper. However, if he wants to ask him about what happened before the sale when there is no privilege, there is 2.2 no work product, that's okay. And if he wants to ask him 23 things about what he now knows but not in a way that says, 24

What did you tell TQ Delta, I think that's okay, too.

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Do you have an intention to go outside
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               THE COURT:
     of what Mr. McAndrews just --
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               MR. STEVENS: It's difficult for me to swallow the
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     notion that I shouldn't be able to ask the witness, Have you
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     told the party something different over the past 10 years. I
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     find that to be a difficult proposition. But beyond that, I
     mean, if I can't ask that question -- if you tell me I can't
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     ask that question, I can't ask it.
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               THE COURT: Let's do this. I think we covered it
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             If Mr. Stevens on cross asks a question of the
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     enough.
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     witness that you believe is privileged, Mr. McAndrews, then
     you need to not get into an argument in front of the jury
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     about privilege and what it is and why it applies; you need to
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     ask to approach the bench and we'll sort it out up here.
                                                                Ιt
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     is my hope we do not have to do that. Okay?
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               MR. McANDREWS: Understood.
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               MR. STEVENS: Understood.
               MR. McANDREWS: Thank you, Your Honor.
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                (The following was had in the presence and hearing
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               of the jury.)
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               THE COURT: All right, counsel. You may continue
     with cross examination.
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               MR. STEVENS: Thank you, Your Honor.
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           (BY MR. STEVENS) So where we left off, you have been a
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     Q.
     litigation consultant for TQ Delta over the past decade.
                                                                Do I
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- 1 have that right?
- 2 A. Yes.
- Q. And when you went through your slide deck with TQ Delta's
- 4 | counsel, you put up four total contributions. Is that right?
- 5 A. Yes.
- 6 | Q. And there are seven patents in this case. Fair?
- 7 A. Yes.
- 8 Q. So for three of the patents you did not display a
- 9 contribution that had anything to do with those patents during
- 10 | your direct examination. Is that true?
- 11 A. That's true.
- 12 Q. And then one of them was, again, the concept of starting
- 13 | the group. It did not include anything technical. Is that
- 14 right?
- 15 A. That's true.
- 16 | Q. Okay. Sir, of the seven patents, you're aware that four
- of them have expired. Is that right?
- 18 A. Yes. I wasn't aware, but yeah.
- 19 | Q. Okay. So the '008 Patent, that one about phase
- 20 | scrambling, that's already expired. Right?
- 21 | A. Again, I didn't realize it. It doesn't really matter,
- 22 but yeah.
- 23 Q. Expired back in November of 2020. Is that true?
- 24 A. Okay.
- Q. The '686 Patent expired back in 2022, last year. Is that

- 1 right?
- 2 A. Okay.
- Q. The '354 Patent, that expired two years ago back in early
- 4 | 2021. Do I have that right, sir?
- 5 A. I'll take your word for it. I haven't checked, so yeah.
- 6 Q. And then the patent that you call the bonding patent, the
- 7 '881 Patent, that expired also in 2022, last year. Is that
- 8 right?
- 9 A. Okay.
- 10 | Q. Now, were you -- you were in the courtroom for Mr. Davis'
- 11 opening presentation. Is that right?
- 12 A. Yes, I was here.
- 13 Q. And you saw him put up a timeline of the provisional
- 14 application date and the standards date. Is that right?
- 15 A. Yes.
- 16 | Q. And the provisional application date doesn't tell us when
- 17 | the patent actually issued. Is that fair?
- 18 A. That's -- yes, that's the invention date.
- 19 Q. And during that intervening period of time, as folks saw
- 20 | during the patent video, there's a back and forth with the
- 21 Patent Office. Is that right?
- 22 A. That's right.
- 23 Q. And claims can change over the years?
- 24 | MR. McANDREWS: Your Honor, may I approach?
- 25 Objection --

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THE COURT: A approach the bench, counsel.
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                (The following was had outside the hearing of the
               jury.)
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               THE COURT: What's the issue, Mr. McAndrews?
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               MR. McANDREWS: Where Mr. Stevens is going is a
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     violation of standing motion in limine No. 7. He is going to
     attempt to suggest that the process of writing claims after
 7
     the standard is known to the public to read -- so that the
 8
     claims are written so they read on the standard is
 9
     inappropriate. He is suggesting --
10
               THE COURT: He hasn't done anything of the type so
11
     far. He simply asked very generic information about the
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     patent application process. Now, you may be concerned that's
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     where he's headed, but I've heard nothing that violates MIL 7
14
     at this point. If he crosses that line and tries to
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     communicate that there's something wrong or improper about
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     seeking patent protection on claims that cover a competitor's
     product, whatever the MIL covers, you can certainly raise that
18
     then, but we're not there yet.
19
               MR. McANDREWS: Understood.
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               THE COURT: And peremptory objections don't serve us
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     a lot of good. You need to wait until he crosses the line.
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     He hasn't crossed that line so far.
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               MR. McANDREWS: I figured it was the next question.
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     I just didn't want the two --
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Well, as long as we're up here,
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               THE COURT:
     Mr. Stevens, are you intending to go down the path that
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     Mr. McAndrews is afraid you're going to go down?
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               MR. STEVENS: I'm not going to suggest there's
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     anything wrong with it; I'm just going to suggest the timeline
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     that they put up has other dates that aren't there and here
     are some other dates.
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               THE COURT: I've heard nothing so far that makes me
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     think there's an objection to be sustained at this point.
 9
     You're certainly free to raise another one if and when we get
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     to that.
               Okay?
               MR. McANDREWS:
                                Thank you, Your Honor.
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               THE COURT: All right.
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                (The following was had in the presence and hearing
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               of the jury.)
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               MR. STEVENS: May I proceed, Your Honor?
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               THE COURT: You may proceed, counsel.
               MR. STEVENS:
                              Thank you.
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          So if we could bring up DDX 8.2, please.
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           (BY MR. STEVENS) And this is an excerpt of the timeline
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     that Mr. Davis showed during the opening. Do you remember
     seeing something that looked like this?
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          Yes, I do.
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     Α.
          I want to make sure we are a hundred percent clear.
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     seven dates sort of just above the timeline but on the left,
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- these dates right over here, those are the dates that I think
- 2 Mr. McAndrews asked you were the provisional patent
- 3 applications. Is that right?
- 4 A. Yes.
- 5 Q. Okay. So those are the first applications. Those aren't
- 6 | the actual filing dates of any of these specific applications
- 7 | for these patents. Is that right?
- 8 A. That's right.
- 9 Q. Okay.
- 10 MR. STEVENS: If we can take that down and look at
- 11 DDX 8.3.
- 12 Q. (BY MR. STEVENS) So let's just peek at one of the
- patents. We were talking about the '354 Patent. That patent
- 14 | actually wasn't filed until late 2014 or early 2015. Is that
- 15 right?
- 16 A. That is right.
- 17 | Q. And it didn't issue until 2015. Is that right?
- 18 A. That's right.
- 19 Q. And so that's to the right of the standard date. Those
- 20 | came out after the standard. Is that right?
- 21 A. Yes.
- 22 Q. Okay. And if we look at DDX 8.4, this is about the
- 23 | '835 Patent. So that patent itself was filed in 2010. Is
- 24 | that right?
- 25 A. Sorry. I don't -- yeah. That's right.

- 1 Q. And it issued in 2013. Is that right?
- 2 A. That's right.
- Q. And both of those dates are after the VDSL2 standard was
- 4 adopted. True?
- 5 A. That's correct.
- Q. And if we go to DDX 8.5, one more with the '411 Patent.
- 7 This was filed in 2010. Is that right?
- 8 A. Yes.
- 9 Q. And issued in 2013. Correct?
- 10 A. Yes.
- 11 Q. And so it issued after the G.INP standard. Do I have
- 12 that right, sir?
- 13 A. Yes.
- 14 Q. Okay. Now, I think I heard you --
- MR. STEVENS: We can take that down.
- 16 | Q. (BY MR. STEVENS) I think I heard you on direct suggest
- 17 | that TQ Delta the entity is an innovator. Did I hear that
- 18 right?
- 19 A. Yes.
- 20 | Q. Okay. I am correct, though, that in your time in 10
- 21 | years with TQ Delta, you filed one new patent application.
- 22 Is that right?
- 23 | A. We filed one new patent application that has many
- 24 inventions in it, yes.
- 25 | Q. Okay. And that's to something called low power mode.

- 1 Did I hear you right?
- 2 A. Yes.
- Q. And that's not asserted in this case. Right?
- 4 A. No.
- Q. One of your roles at TQ Delta is to look at the
- 6 | competition, who's in the market with actual devices. Is
- 7 | that right?
- 8 A. That's not my role, no.
- 9 Q. No?
- 10 A. No.
- 11 Q. All right. Well, let's look at Exhibit 81 at slide 16.
- 12 We'll go back to the presentation that you made to TQ Delta
- 13 | while with Aware. Do you see the slide, sir? Again, it's
- 14 Exhibit 81, slide 16. Do you see that there? Do you see the
- 15 | slide in front of you?
- 16 A. What is this from? I forgot.
- 17 MR. STEVENS: Let's go back to page 1. I don't want
- 18 there to be confusion.
- 19 Q. (BY MR. STEVENS) Again, this is the PowerPoint
- 20 | presentation that you and your brother made as you were trying
- 21 | to shop the patents around to other companies. Do I have that
- 22 right?
- 23 A. Yes.
- 24 | Q. All right. I'd like to look at slide 16 here. And at
- 25 | the bottom, the second -- not the last bullet point but the

- one right above it, it says, "Primary VDSL CPE
- 2 suppliers." Did I read that right, sir?
- 3 A. Yeah, that's what it says there.
- Q. Okay. And then it lists five different companies. Do I
- 5 | have that? Is that right?
- 6 A. That's what it says, yeah.
- 7 Q. And the first company and the third company, 2Wire and
- 8 Pace, those are all now part of CommScope. Is that right?
- 9 A. Yes.
- 10 Q. But there's other competition. CommScope's not the only
- 11 people in the market. Is that true?
- 12 A. Yeah. At this point in time that was true, yeah.
- 13 Q. There was a company called AVM. Is that right?
- 14 A. Yes.
- 15 Q. And there is a company called Zyxel, and another company
- 16 | called Huawei. Is that right?
- 17 A. Yes.
- 18 | Q. And both Zyxel and Huawei are based in Asia. Is that
- 19 | correct, sir?
- 20 A. Yes.
- MR. STEVENS: We can take that down.
- 22 Q. (BY MR. STEVENS) Now, over the course of your time at
- 23 | TQ Delta, you've helped them put together letters to different
- 24 | companies. Is that right?
- 25 A. I was not involved in that.

- 1 Q. Okay. Have you looked at any company's products for
- 2 | TQ Delta during your time there?
- 3 A. What do you mean by 'look at'?
- 4 Q. I'm just asking you if -- I'll withdraw the question.
- 5 You've gone to some meetings on behalf of TQ Delta.
- 6 | Right?
- 7 A. Yes.
- 8 Q. And when they were trying to get other companies to pay
- 9 them, you went to some meetings. Corrects?
- 10 A. When you were what? I'm sorry.
- 11 Q. When TQ Delta was attempting to get other companies to
- 12 pay it, you went to some meetings with those companies. Is
- 13 | that right?
- 14 A. I attended meetings with some of the companies during the
- 15 technical discussions of those meetings.
- 16 | Q. Okay. I just want you to confirm for me you never had a
- 17 | meeting with a company called Broadcom, did you?
- 18 A. I was never at a meeting with Broadcom with TQ Delta.
- 19 Q. Excuse me?
- 20 A. Yes.
- 21 | Q. To the best of your knowledge, TQ Delta's never sent a
- 22 | letter or a licensing offer or a demand to a company called
- 23 Broadcom. Is that right?
- 24 A. Just to clarify, you're talking about things that I'm not
- 25 | really involved in. I'm kind of a technical guy, so I don't

- 1 know what TQ Delta has done.
- 2 | Q. Okay. I'm just asking for whatever knowledge you have,
- 3 and if you don't have any, that's fine.
- 4 A. I don't have any knowledge.
- Q. Okay. And again, Broadcom is a semiconductor. It's a
- 6 | chip company. Is that right?
- 7 A. Yes.
- 8 Q. And other chip companies were licensed by Aware. Is that
- 9 true?
- 10 A. Yes, that's true.
- 11 Q. So, for example, and I know there's been some corporate
- mergers over the time, but Lantiq, Intel, Infineon, MaxLinear,
- 13 | those are all companies that had a license by virtue of Aware.
- 14 Is that right?
- 15 A. So those companies were -- I would call them more Aware
- 16 | partners, so they had -- we had -- we would license technology
- 17 | to them, so it wasn't -- it was not -- and again, I'm not an
- 18 | expert on this, but from what I know because I was on the
- 19 | technology side, it was not a pure patent license, if that's
- 20 | what you're getting at.
- 21 | MR. STEVENS: Your Honor, I object as
- 22 non-responsive.
- 23 | THE COURT: I'll sustain that. Restate the
- 24 question.
- 25 Q. (BY MR. STEVENS) Yes or no, Lantiq, Intel, MaxLinear,

- 1 Infineon, have license to Aware's portfolio stemming back from
- 2 Aware's days. Is that right?
- 3 A. They have a license to certain parts of Aware's
- 4 portfolio.
- 5 Q. Okay. Broadcom does not. Right?
- 6 A. Broadcom does not.
- 7 Q. Okay. And again, to the best -- you don't have any
- 8 personal knowledge that TQ Delta's ever reached out to
- 9 | Broadcom and you yourself have never met with Broadcom on
- 10 behalf of TQ Delta.
- 11 A. That is correct.
- 12 Q. Okay. Sir, you're not an investor in TQ Delta. True?
- 13 A. That's true.
- 14 Q. You don't own any part of TQ Delta.
- 15 A. Yes.
- 16 Q. Okay. Now, during the opening -- let me --
- 17 MR. STEVENS: If I could have slide 4 from the
- 18 opening, PDX.opening.4.
- 19 I'll just take the document camera, if I can; if it's all
- 20 right.
- 21 | Q. (BY MR. STEVENS) Do you remember seeing this slide
- 22 during the opening, sir?
- 23 A. Yes.
- 24 | Q. And I notice the top it says "Marcos Tzannes's patents."
- 25 I want to make sure I'm a hundred percent clear. You don't

- own any of these patents. 1
- Α. Yes.
- TQ Delta owns each of these seven patents; not you. 3 Q.
- that right? 4
- 5 Α. Yes.
- 6 Now, TQ Delta hasn't shared with you any cut or any part
- of any licensing money it's ever received from anyone else. 7
- Is that true? 8
- Α. Yes. 9
- And so for all of the \$90 million that we've heard today 10
- 11 that TQ Delta is going to be asking for in this case, you
- don't expect to see a penny of that. Is that right? 12
- That's right. 13 Α.
- You don't expect them to share any of that with you. Is 14
- that true? 15
- 16 Α. That's true.
- 17 MR. STEVENS: I pass the witness, Your Honor.
- THE COURT: Is there redirect from the Plaintiff? 18
- MR. McANDREWS: Yes; very brief, Your Honor. 19
- THE COURT: All right. Proceed with redirect. 2.0
- 2.1 REDIRECT EXAMINATION
- BY MR. MCANDREWS: 2.2
- Mr. Tzannes, when contributions are made to the ITU, are 23
- they always in writing? 24
- Α. No. 25

- 1 Q. How else can they be made?
- 2 A. Many contributions are made verbally. I mean, we're
- designing in the meetings, so you can make contributions,
- 4 | write them on the board, discuss them with other people.
- Q. So the picture that we saw of you earlier standing at the
- 6 white board, is that an example of presenting an idea to the
- 7 ITU orally?
- 8 A. Yes, it is.
- 9 Q. Now, you were shown a timeline very recently in your
- 10 examination, a timeline that asked you to confirm that some
- 11 | patents were filed. The patent for -- the patent in case, you
- 12 know, the patent application for the patent in the case was
- 13 | filed after a standard had already been issued. Do you recall
- 14 that question?
- 15 A. Yes, I do.
- 16 Q. What is your understanding about the priority date that
- 17 | you're entitled to for a patent that might be filed later?
- 18 A. Well, all that really matters is the invention date; not
- 19 | when you actually file the patent. So you can file a patent
- 20 | later than the actual invention date. Is that what you're
- 21 | getting at?
- 22 Q. Well, I'm asking you the question. So the -- and what do
- 23 | you understand about the provisional filing date? What does
- 24 that do for you?
- 25 MR. STEVENS: Objection; calls for a legal question,

First of all, it's very important that over the weekend

with you before we actually do that.

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and continuing through the remainder of the trial you follow all the instructions I've given you, including among them, perhaps at the top of the list, not to communicate with anybody about this case in any way. I've stressed that previously. I want to stress it one more time.

And I will tell you, I would just about bet if I were a betting person that when you get home somebody's going to ask you what happened in court today. Again, blame it on me, don't even try to go there, just tell them you can't talk about the case at all. So please be careful to follow all my instructions, including that one among the others.

Also I'm going to ask you to be back Monday morning so we can start at 8:30 in the morning. That means you'll need to plan your travel time, you'll need to check the weather, and try to arrange your travel so that you're here in the jury room by about 8:15 or 8:20. And Ms. Clendening will have some breakfast snacks and some juice and things like that for you, but try to be here so that you can be ready to go at 8:30 Monday morning.

Now, that's not a promise that I'll be on the bench and be bringing you into the courtroom at 8:30. There are sometimes things that come up that I don't expect, but I'm going to shoot for you being back in the jury box and us starting with the next witness at 8:30 Monday morning. And we'll follow the same kind of daily schedule I talked about.

You'll also have the same provision of lunch being brought to 1 you from the Clerk's Office on Monday and the rest of this 2 trial. 3 With that, please take your notebooks as you leave the 4 courtroom and leave them closed on the table in the jury room. 5 6 Please travel safely to your homes. Have a good weekend. some rest, and we'll be back in the saddle first thing Monday 7 morning. 8 The jury's excused at this time. 9 (Whereupon, the jury left the courtroom.) 10 THE COURT: Please be seated. 11 Mr. Barton, Mr. Davis, you will recall we had a 12 discussion in chambers earlier today about the multitude of 13 objections to deposition testimony for Monday. I asked the 14 parties to meet and confer and to try their best to resolve 15 16 those, and if not completely resolve them substantially narrow 17 them. Can you give me, both of you, some kind of an update on 18 where you are and what progress has been made? 19 MR. DAVIS: Your Honor, no progress has been made 2.0 2.1 since this morning's meeting, but we will certainly turn to that as soon as we adjourn. 2.2 THE COURT: Does that mean because nobody's tried to 23 make any progress or does that mean you tried to make progress 24 and you've been unable to do so? 25

MR. BARTON: So, Your Honor, at least on our side 1 we've been re-evaluating the objections and we'll be 2 withdrawing some of them. We just have not had an opportunity 3 to meet and confer with the other side. 4 THE COURT: Okay. Well, that's probably all right 5 6 because we have the weekend before us, but when I ask for the parties to meet and confer on another issue as may come up 7 later in the trial, I understand that some of you are at the 8 trial table conducting the trial, but you have enough 9 resources on both sides of this case that you can walk and 10 chew bubble gum at the same time, and I expect those other 11 parallel meet and confer efforts to be ongoing and not wait 12 until the trial stops for the day. It's not a problem now 13 because you have the weekend before you, but going forward if 14 we should be in a similar situation, I'll have that 15 16 expectation. 17 MR. BARTON: Yes, sir. THE COURT: Mr. Davis, you have Ms. Divine to put on 18 next. Is that correct? 19 MR. DAVIS: That's correct, Your Honor. 2.0 2.1 THE COURT: Is it your intention to follow her with one or more of these deposition witnesses? 2.2 That was our intent, Your Honor, but we MR. DAVIS: 23 can evaluate that if it would be of benefit. 2.4 THE COURT: I just do not want to get into a 25

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position of having an interruption or disruption in the trial because of unresolved objections to a deposition witness, which is why I have a standard practice of requiring that those kind of disputes be brought to me earlier than the day before the day they're going to be presented. Now, here's what I want you to do. I want you to meet and confer on these. I want you to update the Court by email to my staff by 5:00 on Sunday afternoon as to where you stand on these deposition designations. And to the extent that they're not completely resolved, then I'll take them up with you early Monday morning in hopes that we can get a substantially narrowed group of disputes out of the way before we start. If necessary, we will probably have a recess after Ms. Divine, given the length of time you've indicated she's going to be on the stand. We will get the deposition disputes out of the way before we're ready for the next witness after Ms. Divine. The sooner we can get that done the better. All right? And I'm going to ask for cooperation from both sides in pursuing that goal. All right. Any questions on that? MR. BARTON: No, sir, Your Honor. No, Your Honor. MR. DAVIS: THE COURT: All right. Also for your information,

counsel, as of right now the parties have expended a total of

2 hours, 13 minutes, and 34 seconds of your designated trial 1 2 That's allocating 1 hour, 27 minutes, and 23 seconds to the Plaintiff, and 46 minutes and 11 seconds to the Defendant. 3 All right. Are there any -- also one other thing. 4 5 Please be prepared or have someone on your trial teams 6 prepared before I bring the jury in Monday morning to go on the record from the podium and read into the record those 7 items from the list of pre-admitted exhibits that have been 8 used during today's portion of the trial. And we will do that 9 on a rolling basis each morning before I bring in the jury, 10 but I want to remind you to be ready to do that first thing 11 Monday morning before the jury comes in. 12 Now, are there questions or issues from either side that 13 I need to hear about before we recess for the weekend? 14 MR. DAVIS: Nothing from the Plaintiff, Your Honor. 15 16 MR. BARTON: Nothing from Defense, Your Honor. 17 THE COURT: All right. I will see you Monday morning. 18 Court stands in recess. 19 (The proceedings were concluded at 5:45 p.m.) 2.0 2.1 2.2 23 24 25

1	I HEREBY CERTIFY THAT THE FOREGOING IS A
2	CORRECT TRANSCRIPT FROM THE RECORD OF
3	PROCEEDINGS IN THE ABOVE-ENTITLED MATTER.
4	I FURTHER CERTIFY THAT THE TRANSCRIPT FEES
5	FORMAT COMPLY WITH THOSE PRESCRIBED BY THE
6	COURT AND THE JUDICIAL CONFERENCE OF THE
7	UNITED STATES.
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9	S/Shawn McRoberts 03/17/2023
10	DATEDATE
11	FEDERAL OFFICIAL COURT REPORTER
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